APPENDIX B1 TANKS 4.0 INPUT/OUTPUT



Idaho Asphalt Supply, Inc. Blackfoot, Idaho Facility

Identification

User Identification: City: State: Company: Type of Tank:

2005 Tank 10 Blackfoot ldaho Idaho Asphalt

Vertical Fixed Roof Tank Asphalt Cement Storage

Description:

Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr): Is Tank Heated (y/n):

40.00 42.00 40.00 36.00 414,554.52 5.49 2,276,938.00

Paint Characteristics Shell Color/Shade:

Shell Condition Roof Color/Shade: **Roof Condition:**

Aluminum/Diffuse Good Aluminum/Diffuse Good

Roof Characteristics

Type:

Cone

Υ

Height (ft) Slope (ft/ft) (Cone Roof)

1.31 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psla)

2005 Tank 10 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			oily Liquid S perature (de		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
en had a manager ar out had glande described in the season of a general color of the season described in the season of the seaso					rhaen ordanomaseen ees	-			ere e		FR 1000 to 4 Tab Nov EARING 11104 (11 A	* · · · · · · · · · · · · · · · · · · ·
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105,0000			1,000.00

2005 Tank 10 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	6.6873
Vapor Space Volume (cu ft):	6,147.9005
Vapor Density (lb/cu ft): Vapor Space Expansion Factor:	0.0002
Vented Vapor Saturation Factor:	0.0131 0.9957
Tank Vapor Space Volume:	•
Vapor Space Volume (cu ft):	6,147,9005
Tank Diameter (ft):	42.0000
Vapor Space Outage (ft):	4.4375
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft): Roof Outage (ft):	36.0000 0.4375
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.4375
Roof Height (ft):	1.3125
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	21.0000
Vepor Density	
Vapor Density (lb/cu ft); Vapor Molecular Welght (lb/lb-mole);	0.0002
Vapor Pressure at Daily Average Liquid	105.0000
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R);	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	40.704
Liquid Bulk Temperature (deg. R):	10.731 784.6700
Fank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg. R):	0.0131
Daily Vapor Pressure Range (psia);	10.0000 0.0049
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	0.000
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid	0.0160
Surface Temperature (psia):	0.0208
Daily Avg, Liquid Surface Temp. (deg R):	784.6700
Dally Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Dally Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor: Vapor Pressure at Daily Average Liquid:	0.9957
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.4375
Vorking Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.): Annual Turnovers:	2,276,938.0000
Turnover Factor:	5.4925 1.0000
Maximum Liquid Volume (gal):	414,554.5153
Maximum Liquid Height (ft):	40.0000
Tank Diameter (fl):	42.0000
Working Loss Product Factor:	1.0000
atal Lances (III)	
'otal Losses (lb):	110.7243

Emissions Report for: Annual

2005 Tank 10 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(ibs)							
Components	Working Loss		Total Emissions					
Asphalt Cement	104.04	6,69	110.72					

Identification

User Identification: City:

2005 Tank 12 Blackfoot

State:

ldaho Idaho Asphalt

Company: Type of Tank:

Vertical Fixed Roof Tank

Description:

Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions
Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):

12.00 10.00 12.00 10.80

Turnovers:

7,050.25 2.80

Net Throughput(gal/yr): Is Tank Heated (y/n):

19,755.00

Paint Characteristics

Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:

Gray/Medium Good Gray/Medium

Good

Roof Characteristics

Type:

Cone

Height (ft) Slope (ft/ft) (Cone Roof)

0.31 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

2005 Tank 12 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp Vapor Pressure			Va essure (psia)			Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Cracked Heavy Oll Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466	***************************************		167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120.1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0163	103.1700	0.1500	0.1361	103.17
Elhylbenzene						0.5877	0.5125	0.6720	108.1700	0.0011	0.0433	106.17
Hexane (-n)						6.8089	6.1399	7.5349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

2005 Tank 12 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (ib):	0.2670
Vapor Space Volume (cu ft):	102.4290
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9986
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	102.4290
Tenk Diameter (ft):	10.0000
Vapor Space Outage (ft):	1.3042
Tenk Shell Height (ft):	12.0000
Average Liquid Helght (ft): Roof Outage (ft):	10.8000 0.1042
Roof Oulage (Cone Roof) Roof Oulage (ft):	0.404
Roof Height (A):	0.1042 0.3128
Roof Slope (ft/ft):	0.0628
Shell Radius (ft):	5.0000
Vapor Density	
Vapor Density (lb/cu ft);	0.0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	0.000
Surface Temperature (psia): Dally Avg. Liquid Surface Temp. (deg. R);	0.0200 574.6700
Daily Average Ambient Temp. (deg. F);	46,3542
Ideal Gas Constant R	40.3342
(psia cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.6800
Tank Paint Solar Absorptance (Roof):	0.6800
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor;	0.0176
Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure Range (psia):	10.0000
Breather Vent Press. Setting Range(psia):	0.0020 0.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid	0.0200
Surface Temperature (psia):	0.0190
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0210
Dally Avg. Liquid Surface Temp. (deg R):	574.8700
Deily Min. Liquid Surface Temp. (deg R):	569.6700
Deily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R):	579.6700 25.8250
Vented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.9986
Vapor Pressure at Daily Average Liquid:	0.5500
Surface Temperature (psia):	0.0200
Vapor Space Outage (ft):	1.3042
Vorking Losses (lb);	1.1810
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.);	19,755.0000
Annual Turnovers:	2.8020
Turnover Factor: Maximum Liquid Volume (gel):	1.0000
Maximum Liquid Helght (ft):	7,050.2469
Tank Diameter (ft):	12.0000
Working Loss Product Factor;	10.0000 1.0000
otal Losses (ib);	1.4480
* *	,,,,,

Emissions Report for: Annual

2005 Tank 12 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Cracked Heavy Oil Alkyl Amines	1.18	0.27	1.45						
Toluene	0.03	0.01	0.04						
Diethylene Triamine (DETA)	0.16	0.04	0.20						
Ethylbenzene	0.05	0.01	0.06						
Xylene (-m)	0.10	0.02	0.12						
1,2,4-Trimethylbenzene	0.10	0.02	0.12						
Benzene	0.00	0.00	0.00						
Hexane (-n)	0.00	0.00	0.00						
Unidentified Components	0.74	0.17	0.91						

Identification

User Identification: City: State: Company: Type of Tank:

Blackfoot Idaho Idaho Asphalt

2005 Tank 13

Vertical Fixed Roof Tank Asphalt Cement Storage Description:

Tank Dimensions

Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr):

40.00 36.00 846,029.62 2.69 2,276,938.00

40.00

60.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: **Shell Condition** Roof Color/Shade:

Aluminum/Diffuse Good

Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type:

Cone

Height (ft) Slope (ft/ft) (Cone Roof)

1,88 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

2005 Tank 13 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Đa	sily Liquid S perature (d	urf.	Liquid Bulk Temp		or Pressure		Vapor Mol.	Liquid Mass	Vapor Mess	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Mio.	Max.	Welght.	Fract.	Fract.	Welght
and the last to the first the contract of the		/ 				militar bush distribution and management and an accountable of	****					********
Asphalt Cement	AJI	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 13 - Vertical Fixed Roof Tank Blackfoot, Idaho

Standing Losses (lb): Vapor Space Volume (cu ft);	44 0040
	14.2216
vepor apada vognila (dd 10);	13,076.8794
Vapor Density (ib/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9955
Tank Vepor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (R):	60.0000
Vapor Space Outage (ft):	4.6250
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.6250
Roof Oulage (Cone Roof)	
Roof Outage (ft):	0.6250
Roof Height (ft):	1.8750
Roof Slope (ft/ft): Shell Radius (ft):	0.0626 30.0000
	00.000
Vapor Density Vapor Density (lib/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R);	784.6700
Daily Average Amblent Temp. (deg. F);	46.3542
Ideal Gas Constant R	
(psia cuft / (ib-mol-deg R));	10.73
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press, Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0206
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Dally Min. Liquid Surface Temp. (deg R):	779.6700
Dally Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Renge (deg. R):	789.6700 25.8250
	20.0200
Vented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid:	0.0000
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.6250
Working Losses (lb):	104.0370
Vepor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	100.000
Surface Temperature (psla):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	2,6913
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	846,029.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
	1.0000
Working Loss Product Factor:	1.0000
	118.2586

Emissions Report for: Annual

2005 Tank 13 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(ibs)							
Components	Working Loss	Breathing Loss	Total Emissions					
Asphalt Cement	104.04		118.26					

Identification

User Identification: City:

Blackfoot State: ldaho Company: Type of Tank: Idaho Asphalt

Vertical Fixed Roof Tank Description: Asphalt Cement Storage

2005 Tank 14

Tank Dimensions Shell Height (ft): 40.00 Diameter (ft): 60.00 Liquid Helght (ft):
Avg. Liquid Helght (ft):
Volume (gallons): 40.00 36.00 846,029.62 Turnovers: 2.69 Net Throughput(gai/yr): 2,276,938.00

is Tank Heated (y/n): Υ

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Cone

Height (ft) 1.88 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

2005 Tank 14 - Vertical Fixed Roof Tank Blackfoot, Idaho

**************************************	A				Principle of the Authority and Authority			wo ma mounter reference			of the factoristic terrological and	***********
			illy Liquid Si perature (di		Liquid Buik Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
	dia and the second of the second		. 470-14-14-15-1			****	orang sagagaraga genara aran	** ** ***	***	F	~~~~~	TO THE CONTRACT MADE OF THE CONTRACT OF THE CO
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 14 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	a Maria at attende com en i mano escribio com semente pero
Standing Losses (lb);	14.2216
Vapor Space Volume (cu ft):	13,076.8794
Vapor Density (lb/cu ft);	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9955
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (ft):	60.0000
Vapor Space Outage (ft): Tank Shell Height (ft):	4.6250
Average Liquid Height (ft):	40.0000 36.0000
Roof Outage (R):	0.6250
Roof Oulege (Cone Roof)	
Roof Outage (ft):	0.6250
Roof Height (ft):	1.8750
Roof Slope (fl/fl);	0.0625
Shell Radius (fl):	30.0000
Vapor Density	0.0000
Vapor Density (lb/cu ft); Vapor Molecular Weight (lb/lb-mole);	0.0002 105.0000
Vapor Pressure at Daily Average Liquid	105.0000
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F);	46.3542
Ideal Gas Constant R	
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	0.6000
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range(psia);	0.0000
Vapor Pressure at Dally Average Liquid	0.0183
Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid	0.0100
Surface Temperature (psia);	0.0160
Vapor Pressure at Daily Maximum Liquid	0.0100
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid:	0.8830
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.6250
Working Losses (lb);	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia);	0.0183
Annual Net Throughput (gal/yr.): Annual Turnovers:	2,276,938.0000
Turnover Factor:	2.6913 1.0000
Maximum Liquid Volume (gal):	846,029.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
Working Loss Product Factor:	1,0000
Totel Losses (lb):	118.2586

Emissions Report for: Annual

2005 Tank 14 - Vertical Fixed Roof Tank Blackfoot, Idaho

Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	104.04	14.22	119.26

Identification

User Identification: City: State: Company:

Type of Tank: Description:

2005 Tank 15 Blackfoot

Idaho Idaho Asphalt

Vertical Fixed Roof Tank Asphalt Cement Storage

Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers:

Net Throughput(gal/yr): Is Tank Heated (y/n):

40,00 60.00 40.00 36.00 846,029.62

2.69 2,276,938.00

Paint Characteristics

Shell Color/Shade: Shell Condition Roof Color/Shade:

Roof Condition:

Aluminum/Diffuse

Aluminum/Diffuse

Good

Roof Characteristics

Type: Height (ft) Cone

Slope (ft/ft) (Cone Roof)

1.88 0.06

Breather Vent Settings

Vacuum Settings (psig):

0.00

Pressure Settings (psig)

0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

2005 Tank 15 - Vertical Fixed Roof Tank Blackfoot, Idaho

en Antonia (de moi i i Anna i Padri Antonia Antonia (de Se I II Spira Ant E) (di Seni i Lon		Dá	ily Liquid S perature (de	urf.	Liquid Bulk Temp		r Pressure		Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
	e control control control de la control de la control control control de la control de	han brook work now	***********		~		Merenna arrango Aaro.	*****			education to decrease a self-reference to decrease and the self-reference to the self-re	the statement of the st
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 15 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	14.2216
Vapor Space Volume (cu ft):	13,076.8794
Vapor Density (lb/cu ft); Vapor Space Expansion Factor:	0.0002 0.0131
Vented Vapor Saturation Factor:	0.9955
Tank Vepor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (ft):	60,0000
Vapor Space Outage (ft): Tank Shell Height (ft):	4.6250
Average Liquid Height (ft):	40.0000 36.0000
Roof Outage (ft):	0.6250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.6250
Roof Height (ft): Roof Slope (ft/ft):	1.8750 0.0625
Shell Redius (ft):	30.0000
Vapor Density	
Vepor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (Ib/Ib-mole): Vepor Pressure at Dally Average Liquid	105.0000
Surface Temperature (psia):	0.0183
Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Dally Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.724
(psia cuft / (lb-mol-deg R)); Liquid Bulk Temperature (deg. R);	10.731 784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sqft day);	1,371,0030
, , ,	1,0,11000
/apor Space Expansion Factor Vapor Space Expansion Factor;	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Dally Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	0.0400
Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid	0.0183
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R):	784.6700
Daily Max, Liquid Surface Temp. (deg R):	779.6700 789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
fented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid:	0.0400
Surface Temperature (psia): Vapor Space Outage (ft):	0.0183 4.6250
Vorking Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.): Annual Turnovers:	2,276,938.0000 2.6913
Turnover Factor;	1.0000
Maximum Liquid Volume (gal):	846,029.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
Working Loss Product Factor:	1.0000
atel Losses (ib)	118.2586
fotal Losses (ib):	110.2586

Emissions Report for: Annual

2005 Tank 15 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss		Total Cinissions						
Asphalt Cement	104,04	14.22	118 26						

Identification

User Identification: City: State:

Company: Type of Tank: Description:

2005 Tank 16 Blackfoot

ldaho Idaho Asphalt

Vertical Fixed Roof Tank Asphalt Cement Storage

Tank Dimensions Shell Height (ft): 40.00 Diameter (ft): 52.00 Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): 40.00 36.00 635,462.25 Turnovers: 3.58 Net Throughput(gal/yr): Is Tank Heated (y/n): 2,276,938.00

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Aluminum/Diffuse Roof Color/Shade:

Roof Condition: Good

Roof Characteristics

Cone Type:

Height (ft) 1.63 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

2005 Tank 16 - Vertical Fixed Roof Tank Blackfoot, Idaho

described of digitaling the wide is provided about the following of the graph is a more of the described provided as	**********		engan daman nama nagy mg	*. **	erre varor e verer en revente en e.	tm#fe/enre.demon.bur Zen.av.		· · · · · · · · · · · · · · · · · · ·		a hier amendo amenero de mere a escenció	Parts, Str Batter Burker (A.) (1-14) or personal	decremente ou com a com	
			ily Liquid S perature (di		Liquid Bulk Temp	Vapo	r Pressure	(osla)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight	
abol 10 commences are a broadening by hymographic being consider the states are a play philipse by clearing a commence as				~*·~**	**************		~~					Marchial a supplementation of a	
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1.000.00	

2005 Tank 16 - Vertical Fixed Roof Tank Blackfoot, Idaho

	e. a. v. annov. v. v. v. v. a. y. e. v. y. v. v. v. y. v. v. y. v.
Annual Emission Calcaulations	
Standing Losses (lb):	10,4904
Vapor Space Volume (cu ft):	9,645.2130
	0.0002
Vapor Density (lb/cu ft): Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9956
Tank Vapor Space Volume:	
Vapor Space Volume (cu fl);	9.645.2130
Tank Diameter (ft):	52.0000
Vapor Space Outage (ft):	4.5417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.5417
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.5417
Roof Height (ft):	1.6250
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	26.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (ib/ib-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia);	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cuft / (lb-mot-deg R));	10.731
Liquid Bulk Temperature (deg. R):	784,6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	4 024 0000
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Elquid Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	0.0103
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	0.0100
Surface Temperature (psia);	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Amblent Temp, Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saluration Factor:	0.9956
Vapor Pressure at Dally Average Liquid:	0.0000
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.5417
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psla):	0.0183
Anπusl Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	3.5831
Tumover Factor:	1.0000
Maximum Liquid Volume (gal):	635,462.2502
Maximum Liquid Height (ff):	40.0000
Tank Diameter (R):	52.0000
Working Loss Product Factor:	1.0000
Total Losses (ib):	114.5274

Emissions Report for: Annual

2005 Tank 16 - Vertical Fixed Roof Tank Blackfoot, Idaho

Components	Working Loss	Breathing Loss	Total Emissions						
Asphalt Cement	104.04	10.49							

Identification

User Identification: 2005 Tank 17 City: Blackfoot State: ldaho Company: Type of Tank: Idaho Asphalt

Vertical Fixed Roof Tank Description: Asphalt Cement Storage

Tank Dimensions

Shell Height (ft): 40.00 Diameter (ft): 60.00 Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): 40.00 36.00 846,029.62 Turnovers: 2.69 Net Throughput(gal/yr): 2,276,938.00

Is Tank Heated (y/n):

Paint Characteristics Shell Color/Shade:

Aluminum/Diffuse Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Cone

Height (ft) 1.88 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12,53 psia)

2005 Tank 17 - Vertical Fixed Roof Tank Blackfoot, Idaho

the Production of the contract on such as some and are a some account of the contract of the c	********			***********							North Comments of the Administration	
			illy Llquid S perature (de		Liquid Bulk Temp	Vapo	or Pressure	(osia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
of the field of the office of the state of t	4 / # No # Margar N. /				****		******	erda erteri van da 11. 1	-h	and the second s	A. A	*****************
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 17 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcautations	
Standing Losses (lb):	14.2218
Vapor Space Volume (cu ft):	13,076.8794
Vapor Density (lb/cu ft);	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9955
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	13,076.8794
Tank Diameter (ft): Vapor Space Outage (ft):	60.0000
Tank Shell Height (ft):	4.6250 40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.6250
Roof Oulage (Cone Roof)	
Roof Oulage (ft):	0.6250
Roof Height (ft):	1.8750
Roof Slope (fl/fl): Shell Radius (fl):	0.0625 30.0000
	00.0000
Vapor Density Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	100.0000
Surface Temperature (psla):	0.0183
Dally Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	40.704
Liquid Buik Temperature (deg. R):	10.731 764.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Dally Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R); Daily Vapor Pressure Range (psia);	10.0000
Breather Vent Press. Setting Range(psla):	0.0049 0.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R):	784.6700
Daily Max. Liquid Surface Temp. (deg R):	779.6700 789.6700
Daily Amblent Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9955
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.6250
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psla); Annual Net Throughput (gal/yr.);	0.0183 2,276,938,0000
Annual Tumovers:	2,276,938.0000
Turnover Factor;	1.0000
Maximum Liquid Volume (gal):	846,029.6230
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	60.0000
Working Loss Product Factor:	1.0000
Total Losses (%);	118.2586

Emissions Report for: Annual

2005 Tank 17 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Asphalt Cement	104.04	14.22	118 26						

Identification

User Identification: City:

State: Company: Type of Tank: Description:

2005 Tank 18 Blackfoot Idaho Idaho Asphalt

Vertical Fixed Roof Tank Asphalt Cement Storage

Tank Dimensions

Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers:

Net Throughput(gal/yr): Is Tank Heated (y/n):

40.00 52.00 40.00 36.00 635,462.25 3.58

2,276,938.00

Paint Characteristics Shell Color/Shade: Shell Condition

Aluminum/Diffuse Good Roof Color/Shade:

Roof Condition:

Aluminum/Diffuse

Good

Υ

Roof Characteristics

Type:

Height (ft)

Cone

Slope (ft/ft) (Cone Roof)

1.63 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

2005 Tank 18 - Vertical Fixed Roof Tank Blackfoot, Idaho

the day reconstruction according to a section of the section of th	***************		* a.a. br. va ar. errenare	~~~~				agent () of the property of	to artist the a few orthography services	recovered and a recovery of the set		*****
			illy Liquid S pereture (d		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
to a rate and a reason and entering of the order independent of the plant of the second of the secon			and this is the same on the				يوا جريباردي دو رييسيا ها يدهمه	#1 6 #1 1000 ABO A Marc. #4 PP	and the commence of the commen		***************************************	
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 18 - Vertical Fixed Roof Tank Blackfoot, Idaho

BORNING BOLD CONTROL OF THE PROPERTY OF THE PR	
Standing Losses (tb):	10.4904
Vapor Space Volume (cu ft):	9,645.2130
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9956
ank Vapor Space Volume;	
Vapor Space Volume (cu ft):	9,645.2130
Tank Diameter (ft):	52.0000
Vapor Space Outage (ft):	4.5417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	36,0000
Roof Outage (ft):	0.5417
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.5417
Roof Height (ft):	1.6250
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	26.0000
apor Density	
Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole):	0.0002 105.0000
Vapor Pressure at Dally Average Liquid	100.000
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R):	784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40,3342
(psia cuft / (lb-mol-deg R)):	10.731
Limid Bulk Temperature (den. R):	784.6700
Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
/apor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Dally Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Dally Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Delly Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
ented Vapor Saturation Factor	0.0050
Vented Vapor Saturation Factor:	0.9956
Vapor Pressure at Daily Average Liquid:	0.0400
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	4.5417
Vorking Losses (lb);	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Tumovers:	3.5831
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	635,462.2502
Maximum Liquid Height (ft):	40.0000
	52.0000
Tank Diameter (ft):	
	1.0000
Tank Diameter (ft):	1.0000 114.5274

Emissions Report for: Annual

2005 Tank 18 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Asphalt Cement	104.04	10.49	114.53						

Identification

User Identification: 2005 Tank 19 City: Blackfoot State: Idaho Company: Idaho Asphalt

Type of Tank: Description: Vertical Fixed Roof Tank

Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Height (ft): 16.00 Dlameter (ft): 11.00 Liquid Height (ft): 16.00 Avg. Liquid Height (ft): 14.40 Volume (gallons): 11,374.40 Turnovers: 1.74 Net Throughput(gal/yr): 19,755.00

Is Tank Heated (y/n):

Paint Characteristics

Aluminum/Diffuse Shell Color/Shade: Shell Condition Roof Color/Shade: Aluminum/Diffuse Roof Condition: Good

Roof Characteristics

Type: Cone Height (ft) Slope (ft/ft) (Cone Roof) 0.34 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

Meterological Data used in Emissions Calculations: Pocatello, Idaho (Avg Atmospheric Pressure = 12.53 psia)

2005 Tank 19 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Daily Liquid Surf. Temperature (deg F)		Liquid Bulk Temp Vap		or Pressure (psia)		Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Cracked Heavy Oil Alkyl Amines 1,2,4-Trimethylbenzene	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466			167.36
Benzene Diethylene Triamine (DETA)						0.1421 4.5082 0.0136	0.1215 4.0391	0.1657 5.0204	120.1900 78.1100	0.0085	0.0805	120.19 78.11
Ethylbenzene Hexane (-n)						0.5877 6.8089	0.0113 0.5125 6.1399	0.0163 0.6720 7.5349	103.1700 106.1700 86.1700	0.1500 0.0011 0.0000	0.1361 0.0433 0.0004	103.17 106.17 86.17
Toluene Unidentified Components						1.5030 0.0152	1.3288	1.6958 0.0132	92.1300 140.5942	0.0003 0.8377	0.0272 0.6285	92.13 189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

2005 Tank 19 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	anning 4778 home has them and by set day spiritely a hadron set data.
Standing Losses (lb):	0.4245
Vapor Space Volume (cu ft):	162.9439
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	162.9439
Tank Diameter (ft):	11.0000
Vapor Space Outage (ft):	1.7146
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft): Roof Outage (ft):	14.4000 0.1146
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1146
Roof Height (ft):	0.3438
Roof Slope (fl/ft):	0.0825
Shell Radius (ft):	5.5000
Vapor Density	
Vapor Densily (lb/cu ft):	0.0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	0.0200
Surface Temperature (psia); Daily Avg. Liquid Surface Temp. (deg. R);	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	10.0014
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sqft day):	1,371.0030
Vones Casas Evanasion Footes	
Vapor Space Expansion Factor Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R);	10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid	0.0400
Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid	0.0190
Surface Temperature (psia):	0.0210
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia): Vapor Space Outage (ft):	0.0200 1.7146
Morting Lagran flys	4 4040
Working Losses (lb): Vapor Molecular Weight (lb/lb-mole);	1.1810 125.5466
Vapor Pressure at Daily Average Liquid	120.0400
Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Tumovers:	1.7368
Turnover Factor:	1,0000
Maximum Liquid Volume (gal):	11,374.3983
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft): Working Loss Product Factor:	11.0000 1,0000
-	
Total Losses (lb);	1.6055

Emissions Report for: Annual

2005 Tank 19 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Cracked Heavy Oil Alkyl Amines	1.18	0.42	1.61						
Toluene	0.03	0.01	0.04						
Diethylene Triamine (DETA)	0.16	0.06	0,22						
Ethylbenzene	0.05	0.02	0.07						
Xylene (-m)	0.10	0.03	0.13						
1,2,4-Trimethylbenzene	0.10	0.03	0.13						
Benzene	0.00	0.00	0.00						
Hexane (-n)	0.00	0.00	0.00						
Unidentified Components	0.74	0.27	1.01						

Identification

User Identification: 2005 Tank 20 City: Blackfoot State: ldaho Company: Type of Tank: Description:

Idaho Asphalt Vertical Fixed Roof Tank

Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Height (ft): 16.00 Diameter (ft): 12.00 Liquid Height (ft): 16.00 Avg. Liquid Height (ft): Volume (gallons): 14.40 13,536.47 Turnovers: 1.46 Net Throughput(gal/yr): 19,755.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Roof Color/Shade: Roof Condition: AlumInum/Diffuse

Good

Roof Characteristics

Type: Cone Height (ft)

0.38 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) 0.00 0.00

2005 Tank 20 - Vertical Fixed Roof Tank Blackfoot, Idaho

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		Daily Liquid Surf. Temperature (deg F			Liquid Bulk Temp			Vapor Mol.	Liquid Mass	Vapor Mess	Mol.	
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Cracked Heavy Oif Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125,5466	**************************************	Carrier of Annual Contract of the Walter States	167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120,1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0163	103.1700	0.1500	0.1361	103.17
Ethylbenzene						0.5877	0.5125	0.6720	108.1700	0.0011	0.0433	108.17
Hexane (-n)						6.8089	6.1399	7.6349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6956	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

2005 Tank 20 - Vertical Fixed Roof Tank Blackfoot, Idaho

the enterest control section, as a constant of an experimental field from charge day fit, following for the experiment as	
Annual Emission Calcaulations	0.00.00 mm hand volumes equal description with
Standing Losses (lb):	0.5082
Vapor Space Volume (cu ft):	195.0929
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	195.0929
Tank Diameter (ft):	12.0000
Vapor Space Outage (fi):	1.7250 16.0000
Tank Shell Height (机): Average Liquid Height (机):	14.4000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft);	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (lb/cu ft):	0,0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0200
Dally Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press, Selting Range(psia); Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid	0.02.00
Surface Temperature (psia):	0.0190
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia);	0.0210
Dally Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Dally Max. Liquid Surface Temp. (deg R):	579.6700
Dally Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	0.000
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0200
Vapor Space Outage (ft):	1.7250
Working Losses (lb):	1.1810
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	120.0400
Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Turnovers:	1.4594
Turnover Factor:	1.0000
Maximum Liquid Volume (gal);	13,536.4740
Maximum Liquid Height (ft);	16.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Total Lancon (lb):	4.0000
Total Losses (lb):	1.6893

Emissions Report for: Annual

2005 Tank 20 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Cracked Heavy Oil Alkyl Amines	1.18	0.51	1,69						
Toluene	0.03	0.01	0.05						
Diethylene Triamine (DETA)	0.16	0.07	0.23						
Ethylbenzene	0.05	0.02	0.07						
Xylene (-m)	0.10	0.04	0.14						
1,2,4-Trimethylbenzene	0.10	0.04	0.14						
Benzene	0.00	0.00	0.00						
Hexane (-n)	0.00	0.00	0.00						
Unidentified Components	0.74	0.32	1.06						

Identification

User Identification: City: State:

State: Idaho
Company: Idaho Asphalt
Type of Tank: Vertical Fixed

Type of Tank: Description:

Vertical Fixed Roof Tank Asphalt Cutback Storage

2005 Tank 22

Blackfoot

Tank Dimensions

Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers:
Net Throughput(gal/yr):

16.00 14.40 18,424.65 13.27 244,558.00

16.00

14.00

Is Tank Heated (y/n):

is rank neated (y/ii).

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Cone

 Height (ft)
 0.44

 Slope (ft/ft) (Cone Roof)
 0.06

Breather Vent Settings

Vacuum Settings (psig):0.00Pressure Settings (psig)0.00

2005 Tank 22 - Vertical Fixed Roof Tank Blackfoot, Idaho

the hitchina in an arrange of a second of the second of th				\$1						and the state of t	en e	walnest a second metaber
			elly Liquid S perature (d		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Asphalt Culback	All	275.00	270.00	280.00	275.00	0.1850	0.0100	0.2000	128.5900			276.33
1,2,4-Trimethylbenzene						5,6352	5.1711	6.1325	120.1900	0.0015	0.0974	120.19
Asphalt Cement						0.0044	0.0038	0.0052	105.0000	0.6850	0.0037	1,000.00
Benzene						61.3196	57.6522	65.1581	78.1100	0.0000	0.0264	78.11
Ethylbenzene						14.8309	13.7491	15.9786	106.1700	0.0001	0.0171	106.17
Hexane (-n)						80.1300	75.5813	84.8763	86.1700	0.0000	0.0158	86.17
Toluene						27.9679	26.1034	29.9335	92.1300	0.0003	0.1062	92.13
Unidentified Components						0.1083	0.0770	0.0990	158.7582	0.3120	0.5807	107.34
Xylene (-m)						13.1461	12.1729	14.1798	106.1700	0.0010	0.1527	106.17

2005 Tank 22 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	8.4409
Vapor Space Volume (cu ft):	268.7502
Vapor Density (lb/cu ft):	0.0030
Vapor Space Expansion Factor:	0.0290
Vented Vapor Saturation Factor:	0.9832
Tank Vapor Space Volume;	
Vapor Space Volume (cu ft):	268.7502
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	1.7458
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft): Roof Outage (ft):	14.4000 0.1458
	011700
Roof Outage (Cone Roof)	0.4450
Roof Outage (ft);	0.1458
Roof Height (ft): Roof Slope (ft/ft):	0.4375
Shell Radius (ft):	0.0625 7.0000
Vapor Density	
Vapor Density (ib/cu ft):	0.0030
Vapor Molecular Weight (ib/lo-mole):	128.5900
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R):	734.6700
Daily Average Amblent Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.704
(psia cuft / (lb-mol-deg R)); Liquid Bulk Temperature (deg. R);	10.731 734.6700
Tank Paint Solar Absorptance (Sheli):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0290
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.1900
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1050
Vapor Pressure at Daily Minimum Liquid	0,1850
Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	734.6700
Daily Min. Liquid Surface Temp. (deg R):	729.6700
Daily Max. Liquid Surface Temp. (deg R):	739.6700
Daily Amblent Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9832
Vapor Pressure at Daily Average Liquid:	0.4050
Surface Temperature (psia): Vapor Space Outage (ft):	0.1850 1.7458
M-12-1	
Vorking Losses (fb);	138.5197
Vapor Molecular Weight (Ib/lb-mole): Vapor Pressure at Daily Average Liquid	128.5900
Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr.):	244,558.0000
Annual Turnovers:	13.2734
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	18,424.6451
Maximum Liquid Height (ft):	16.0000
Tank Diameter (fl):	14.0000
Working Loss Product Factor:	1.0000
fotal Losses (lb);	146.9606

Emissions Report for: Annual

2005 Tank 22 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)							
Components	Working Loss	Breathing Loss	Total Emissions					
Asphalt Cutback	138.52	8.44	146.96					
Asphalt Cement	0.51	0.03	0.55					
Hexane (-n)	2.19	0.13	2.33					
Benzene	3.65	0.22	3.87					
Toluene	14.72	0.90	15.61					
Ethylbenzene	2.36	0.14	2.51					
Xylene (-m)	21.15	1.29	22.44					
1,2,4-Trimethylbenzene	13.49	0.82	14.31					
Unidentified Components	80.44	4.90	85.34					

Identification

2005 Tank 23 Blackfoot User Identification: City: State: ldaho Company: Type of Tank: ldaho Asphalt

Vertical Fixed Roof Tank Asphalt Cutback Storage Description:

Tank Dimensions

Shell Height (ft): 16.00 Diameter (ft): 14.00 Liquid Height (ft): 16.00 Avg. Liquid Height (ft): Volume (gallons): 14.40 18,424.65 Turnovers: 13.27 Net Throughput(gal/yr): 244,558.00

Is Tank Heated (y/n): Υ

Paint Characteristics

Aluminum/Diffuse Shell Color/Shade: Shell Condition Good Roof Color/Shade: Aluminum/Diffuse Roof Condition: Good

Roof Characteristics

Cone Type:

Height (ft) 0.44 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

2005 Tank 23 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			Daily Liquid Surf. Temperature (deg F)		Liquid Bulk Temp	lutk		Vapor Pressure (psia)		Liquid Mass	Vepor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Asphalt Cutback	All	275.00	270.00	280.00	275.00	0.1850	0.0100	0.2000	128.5900	ing hadimum. Januaru san basa basa	the first of the control of the control of the control on the control of the cont	276.33
1,2,4-Trimethylbenzene						5.6352	5.1711	6.1325	120.1900	0.0015	0.0974	120.19
Asphalt Cement						0.0044	0.0038	0.0052	105.0000	0.6850	0.0037	1,000.00
Benzene						61.3196	57.6522	65.1581	78.1100	0.0000	0.0264	78.11
Ethylbenzene						14.8309	13.7491	15.9786	106.1700	0.0001	0.0171	106.17
Hexane (-n)						80.1300	75.5813	84.8763	86.1700	0.0000	0.0158	86.17
Totuene						27.9679	26.1034	29.9335	92.1300	0.0003	0.1062	92.13
Unidentified Components						0.1083	0.0770	0.0990	158.7582	0.3120	0.5807	107.34
Xylene (-m)						13.1461	12.1729	14.1798	106.1700	0.0010	0.1527	106.17

2005 Tank 23 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Slanding Losses (lb):	8.4409
Vapor Space Volume (cu ft):	268.7502
Vapor Density (lb/cu ft):	0.0030
Vapor Space Expansion Factor:	0.0290
Vented Vapor Saturation Factor:	0.9832
Fank Vapor Space Volume:	
Vapor Space Volume (cu ft):	268.7502
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	1.7458
Tank Shell Height (ft):	16.0000 14.4000
Average Liquid Height (ft): Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ff/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (tb/cu ft):	0.0030 128.5900
Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Dally Average Liquid	120.0900
Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R);	734.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cuft / (ib-mol-deg R)):	10.731
Liquid Bulk Temperature (dag. R):	734.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof): Daily Total Solar Insulation	0.6000
Factor (Blu/sqft day):	1,371.0030
/apor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0290
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia);	0.1900
Breather Vent Press. Setting Renge(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Vapor Pressure at Daily Minimum Liquid	0,1000
Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid	3.5100
Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	734.6700
Dally Min. Liquid Surface Temp. (deg R):	729.6700
Daily Max. Liquid Surface Temp. (deg R):	739.6700
Daily Ambient Temp. Range (deg. R):	25.8250
/ented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.9832
Vapor Pressure at Daily Average Liquid:	V.8032
Surface Temperature (psia):	0.1850
Vepor Space Outage (ft):	1.7458
Vorking Losses (lb):	138.5197
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr.):	244,558.0000
Annual Turnovers: Turnover Factor:	13.2734
Maximum Liquid Volume (gal):	1.0000 18,424.6451
Maximum Liquid Height (ff):	16.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Folal Losses (lb):	146,9606

Emissions Report for: Annual

2005 Tank 23 - Vertical Fixed Roof Tank Blackfoot, Idaho

Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cutback	138.52	8.44	146.96
Asphalt Cement	0.51	0.03	0.55
Hexane (-n)	2.19	0.13	2.33
Benzene	3.65	0.22	3.87
Toluene	14.72	0.90	15.61
Ethylbenzene	2.36	0.14	2.51
Xylene (-m)	21.15	1.29	22.44
1,2,4-Trimethylbenzene	13.49	0.82	14.31
Unidentifled Components	80.44	4.90	85.34

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866,815,00

Emissions Report - Detail Format Tank Indentification and Physical Characteristics

Identification

User Identification: City: State: Company:

2005 Tank 2320-1 Blackfoot Idaho Idaho Asphalt

Type of Tank: Description: Vertical Fixed Roof Tank Asphalt Cement Process Tank

Tank Dimensions

Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers: Net Throughput(gal/yr):

Is Tank Heated (y/n): Υ

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse

Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Cone

Height (ft) 0.22 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) 0.00 0,00

2005 Tank 2320-1 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			illy Liquid Si perature (de		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
Serveron, ne segondo de abigal han arramana nu antica que antica de projetique (de bracon que per casa n. m.		****	~	e chara hertena pressen		n wanangan bankan ayak	·** ***	·····				
Asphalt Cement	All	300.00	295.00	305.00	300.00	0.0092	0.0080	0.0108	105.0000			1,000.00

2005 Tank 51 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft): Average Liquid Height (ft):	36.0000 32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (fi):	0.1458
Roof Height (ft):	0.4375
Roof Stope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (ib/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Dally Average Liquid	
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cuft / (lb-mot-deg R));	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Sheli):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press, Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	0,0003
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	010002
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0003 2,631,374.0000
Annual Net Throughput (gal/yr.): Annual Turnovers:	2,031,374.0000 57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455,4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

Emissions Report for: Annual

2005 Tank 51 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss	Breathing Loss	
Asphalt Cement	1.33		1.34

Identification

User Identification: City: State: Company: Type of Tank: Description:

ldaho Idaho Asphalt

Vertical Fixed Roof Tank Asphalt Emulsion (Water-Based) Storage

2005 Tank 52

Blackfoot

Tank Dimensions

Shell Height (ft):
Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers: 36.00 14.00 36.00 32.40 41,455.45 57.96 Net Throughput(gal/yr): 2,631,374.00

Is Tank Heated (y/n):

Paint Characteristics Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Cone

Height (ft) Slope (ft/ft) (Cone Roof) 0.44 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig) 0.00 0.00

2005 Tank 52 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			aily Liquid S perature (d		Liquid Bulk Temp	Vapo	x Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
participants is access consequences of the data are constituted adversaries in the consequence and access of consequences of the consequences of t	de emiliado contra mas educer escaso		· · · · · · · · · · · · · · · · · · ·	** ***********	V444-004 4-4-16-40-16-1-1-3-0-0		and the strategy of participation of the first		w.ov	the entropies E , and the entropies Annual State	*************	
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

2005 Tank 52 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb);	0.0142
Vapor Space Volume (cu ft):	576,6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tenk Shell Height (ft): Average Liquid Height (ft):	36.0000
Roof Outage (ft):	32.4000 0.1458
Roof Outage (Cone Roof)	
Roof Oulage (ft);	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (ib/lb-mole):	105.0000
Vepor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0000
Daily Avg. Liquid Surface Temp. (deg. R);	0.0003 654.6700
Daily Average Ambient Temp. (deg. F);	46.3542
Ideal Gas Constant R	40.3042
(psia cuft / (lb-mol-deg R));	10.731
Liquid Buik Temperature (deg. R);	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqfl day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure Range (psia):	10.0000
Breather Vent Press. Setting Range(psia):	0.0001 0.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	0.000
Surface Temperature (psla):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psla):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vepor Saturation Factor Vented Vapor Saturation Factor:	0.0000
Vapor Pressure at Daily Average Liquid:	0.9999
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Vorking Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	105.000
Surface Temperature (psia);	0.0003
Annual Net Throughput (gal/yr.);	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Cotal Lacass (Ib)	4.0.00
Fotal Losses (lb):	1.3402

Emissions Report for: Annual

2005 Tank 52 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss		Total Emissions
Asphalt Cement	1.33	0.01	1.34

Identification

User Identification: City: State: Company: Type of Tank:

Blackfoot ldaho Idaho Asphalt Vertical Fixed Roof Tank

2005 Tank 53

Description:

Asphalt Emulsion (Water-Based) Storage

Tank Dimensions Shell Height (ft): 36.00 Diameter (ft): 14.00 Liquid Height (ft): Avg. Liquid Height (ft): Volume (galions): 36.00 32.40 41,455.45 Turnovers: 57.96 Net Throughput(gal/yr): 2,631,374.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Cone

Height (ft) 0.44 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

2005 Tank 53 - Vertical Fixed Roof Tank Blackfoot, Idaho

and a district the first of a shown as one or one of the of the of the original representation of a district or a new forest or a second or district.			ting or the second property of the second	********		The Art of the section becomes the			description and the second section is a second	er er en san er en	Control on particular and addressed to a processed	network conse
			illy Liquid S perature (de		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Llquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Secretaria contra contra de propieta de la contra del la contra della						····	mani a Milia a de mos como		************************	of the transport of the second		*************
Asphall Cement	Ail	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

2005 Tank 53 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.8282
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu it):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	38,0000
Average Liquid Height (ft): Roof Outage (ft):	32.4000 0.1458
Roof Outage (Cone Roof)	
Roof Outage (fit):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/A):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Welght (lb/lb-mole): Vapor Pressure at Dally Average Liquid	105.0000
Surface Temperature (paia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46,3542
Ideal Gas Constant R	10,0012
(psia cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	654,6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Dally Vapor Pressure Range (psia); Breather Vent Press. Setting Range(psia);	0.0001
Vapor Pressure at Daily Average Liquid	0.000
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	0.0000
Surface Temperature (psla):	0.0002
Vapor Pressure at Daily Meximum Liquid	******
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Dally Max. Liquid Surface Temp. (deg R):	659.6700
Dally Ambient Temp. Range (deg. R):	25.8250
/ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Dally Average Liquid:	0.0000
Surface Temperature (psia): Vapor Space Outage (ft):	0.0003 3,7458
Vorking Losses (lb);	1,3260
Vapor Molecular Weight (lb/lb-mole):	1.3260
Vapor Pressure at Daily Average Liquid	100.000
Surface Temperature (psia);	0.0003
Annual Net Throughput (gat/yr.):	2,631,374,0000
Annual Turnovers:	57,9580
Turnoyer Factor;	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
'otal Losses (ib):	1.3402

Emissions Report for: Annual

2005 Tank 53 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

Identification

User Identification: City: State:

Blackfoot ldaho Idaho Asphalt

Company: Type of Tank:

Vertical Fixed Roof Tank

2005 Tank 54

Description:

Asphalt Emulsion (Water-Based) Storage

Tank Dimensions
Shell Height (ft):
Diameter (ft):
Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr):

36.00 14.00 36.00 32.40 41,455.45 57.96 2,631,374.00

Is Tank Heated (y/n):

Paint Characteristics Shell Color/Shade: Shell Condition

Aluminum/Diffuse

Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Cone

Height (ft) Slope (ft/ft) (Cone Roof)

0.44 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 54 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			illy Liquid S perature (d		Uguld Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min,	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
ден Мейлен и на 1000 година и повет повет повет повет повет повет да др. 2000 г. Мордина у подава и подава у подава и	****************	war er a production of made or		****//** ******** A * ***								
Asphall Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

2005 Tank 54 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft);	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor;	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (it):	3.7458
Tank Shell Helght (ft):	36.0000
Average Liquid Height (ft): Roof Outage (ft):	32.4000 0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vepor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Dally Average Liquid	0.0000
Surface Temperature (psia):	0.0003 654,6700
Daily Avg. Liquid Surface Temp. (deg. R); Daily Average Amblent Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.3342
(psia cuft / (ib-mot-deg R));	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	0.0003
Surface Temperature (psia): Vapor Pressure at Daily Minimum Uquid	0.0003
Surface Temperature (psia);	0.0002
Vapor Pressure at Daily Maximum Liquid	0.0002
Surface Temperature (psia):	0.0004
Dally Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Dally Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (ib):	1.3260
Vapor Molecular Weight (ib/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor: Maximum Liquid Volume (gal):	0.6843 41,455,4515
Maximum Liquid Volume (gar): Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
-	
Total Losses (b):	1,3402

Emissions Report for: Annual

2005 Tank 54 - Vertical Fixed Roof Tank Blackfoot, Idaho

Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1.33	0.01	1.34

Identification

User Identification: 2005 Tank 55 City: Blackfoot State: ldaho Company: Type of Tank: Description: Idaho Asphalt

Vertical Fixed Roof Tank

Asphalt Emulsion (Water-Based) Storage

Tank Dimensions

Shell Height (ft): 36.00 Diameter (ft): 14,00 Liquid Height (ft): Avg. Liquid Height (ft): 36,00 32,40 Volume (gallons): 41,455.45 Turnovers: 57.96 Net Throughput(gal/yr): Is Tank Heated (y/n): 2,631,374.00

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse

Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Cone Type:

Height (ft) 0.44 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

2005 Tank 55 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			illy Liquid S perature (d		Liquid Bulk Temp	Vapo	or Pressure	(osla)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min,	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
and determinent and control of the c	Amilianom (Anno. 1111)			************	orena eronanerenon (494)	der in militariah melalah samuran resistan di	on an oran man description	***************	a de caraca managações sens para para sens	e la cambre ca mora de sé acomo a con merco		manager, and a proper property of
Asphalt Cement	Αll	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

2005 Tank 55 - Vertical Fixed Roof Tank Blackfoot, Idaho

Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (fb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft): Tank Shell Height (ft):	3.7458 36.0000
Average Liquid Height (ft):	32.4000
Roof Outage (fi):	0.1458
Roof Oulage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000 105.0000
Vapor Molecular Weight (lb/lb-mole); Vapor Pressure at Daily Average Liquid	105,000
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Reof): Daily Total Solar Insulation	0.6000
Factor (Btu/sqfl day);	1,371,0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Dally Vapor Temperature Range (deg. R);	10.0000
Daily Vapor Pressure Range (psla):	0.0001
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minknum Liquid Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	0.0002
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Renge (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Dally Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Vorking Losses (ib);	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	0.0003
Surface Temperature (psia): Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Tumovers:	2,031,374.0000 57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gel):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

Emissions Report for: Annual

2005 Tank 55 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)						
Components	Working Loss	Dieguning Loss	Total Emissions				
Asphalt Cement	1.33		1.34				

Identification

User Identification: 2005 Tank 6 Blackfoot City: State: ldaho

Company: Type of Tank: Idaho Asphalt Vertical Fixed Roof Tank Description: Asphalt Cement Storage

Tank Dimensions Shell Helght (ft): Diameter (ft): 40.00 30.00 Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): 40.00 36.00 211,507,41 Turnovers: 10.77 Net Throughput(gal/yr): 2,276,938.00

Is Tank Heated (y/n): Υ

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse

Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Cone Type:

Height (ft) 0.94 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

2005 Tank 6 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			ily Liquid Si perature (di		Liquid Bulk Temp	Vapo	r Pressure	(psla)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Mín.	Max.	Weight.	Fract.	Fract.	Weight
tion become the colorer committee of the distinction and the colorer of the color				Marchael Marchine, Minister	······································			and Sharps - Nyster days - St.	en Malino areaberen 12 dices escore			representation of solid members in
Asphalt Cement	A!I	375.00	370.00	380.00	375.00	0.0635	0.0564	0.0713	105.0000			1,000.00

2005 Tank 6 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	nonces on a nonest constant to a seed when the last quinting supplying
Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.3266
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9857
Tank Vapor Space Volume:	
Vspor Space Volume (cu fi):	3,048.3268
Tank Diameter (ft): Vapor Space Outage (ft):	30,0000
Tank Shell Helght (ft):	4.3125 40.0000
Average Liquid Height (ft):	36.0000
Roof Outage (ft):	0.3125
Roof Oulage (Cone Roof)	
Roof Outage (ft):	0.3125
Roof Height (ft):	0.9375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	15.0000
Vapor Density	
Vapor Density (lb/cu ft):	0,0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	0.0005
Surface Temperature (psia); Daily Avg. Liquid Surface Temp. (deg. R);	0.0635 834.6700
Daily Average Ambient Temp. (deg. R):	46.3542
Ideal Gas Constant R	40,3342
(psia cuft / (lb-mot-deg R));	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149 0.0000
Breather Vent Press. Setting Range(psia): Vapor Pressure at Dally Average Liquid	0.0000
Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid	0.000
Surface Temperature (psia):	0.0564
Surface Temperature (psla): Vapor Pressure at Dally Meximum Liquid	
Surface Temperature (psia);	0.0713
Dally Avg. Liquid Surface Temp. (deg R): Dally Min. Liquid Surface Temp. (deg R):	834.6700
Dally Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	0.0007
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid; Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	4.3125
Working Losses (lb):	361.4078
Vapor Molecular Weight (lb/lb-mole);	105.0000
Vapor Pressure at Daily Average Liquid	100,000
Surface Temperature (psia):	0.0635
Annual Net Throughput (gat/yr.):	2,276,938.0000
Annual Turnovers:	10.7653
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	211,507.4057
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft):	30.0000
Working Loss Product Factor:	1.0000
Total basses (Ib.)	
Total Losses (lb):	372.1625

Emissions Report for: Annual

2005 Tank 6 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss	2.000	
Asphalt Cement	361.41	10,75	372.16

Identification

User Identification: City: State:

Blackfoot ldaho Company: Idaho Asphalt Type of Tank:

Vertical Fixed Roof Tank

Description: Cracked Heavy Oil Alkyl Amines Storage

2005 Tank 68

Tank Dimensions Shell Height (ft): 16,00 Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): 11.00 16.00 14.40 11,374.40 Turnovers: 1.74 Net Throughput(gal/yr): 19,755.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Shell Condition Aluminum/Diffuse

Good

Roof Color/Shade: Aluminum/Diffuse Good

Roof Condition:

Roof Characteristics

Cone Type:

Height (ft) 0.34 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

2005 Tank 68 - Vertical Fixed Roof Tank Blackfoot, Idaho

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		Liquid Daily Liquid Surf. Buik Temperature (deg F) Temp			Vapor Pressure (psia)			Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	
Mixture/Component	Month	Avg.	Min.	Max.	(Avg.	Min.	Max.	Welght.	Fract.	Fract.	Weight
Cracked Heavy Oil Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466			167.36
1,2,4-Trimethylbenzene						0.1421	0.1215	0.1657	120.1900	0.0085	0.0805	120.19
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0020	78.11
Diethylene Triamine (DETA)						0.0136	0.0113	0.0163	103.1700	0.1500	0.1361	103.17
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0011	0.0433	106.17
Hexane (-n)						6.8089	6.1399	7.5349	86.1700	0.0000	0.0004	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Unidentified Components						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

2005 Tank 68 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	0.4245
Vapor Space Volume (cu ft):	162.9439
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982
Fank Vapor Space Volume:	
Vapor Space Volume (cu ft):	162,9439
Tank Diameter (ft):	11.0000
Vapor Space Outage (ft):	1,7146
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1146
Roof Oulage (Cone Roof)	
Roof Outage (ft):	0.1146
Roof Height (ft):	0.3438
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	5.5000
/apor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (ib/lb-mole):	125.5466
Vapor Pressure at Dally Average Liquid	0.0200
Surface Temperature (psla); Daily Avg. Liquid Surface Temp. (deg. R);	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	70.0072
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	574.6700
Tank Paint Solar Absorptance (Sheii):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	4.074.000
Factor (Blu/sqft day):	1,371.0030
/apor Space Expansion Factor	0.0470
Vapor Space Expansion Factor; Daily Vapor Temperature Range (deg. R);	0.0176 10.0000
Daily Vapor Pressure Range (psia):	0.0020
Breather Vent Press. Selling Range(psia);	0.0020
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0200
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psla):	0.0190
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psla):	0.0210
Daily Avg. Liquid Surface Temp. (deg R):	574.6700
Daily Min. Liquid Surface Temp. (deg R):	569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Daily Ambient Temp. Range (deg. R):	25.8250
ented Vapor Saturation Factor	0.000
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid:	0.0200
Surface Temperature (psia): Vapor Space Outage (ft):	1.7146
	4 4040
Vorking Losses (Ib): Vapor Molecular Weight (Ib/Ib-mole):	1.1810 125.5466
Vapor Pressure at Daily Average Liquid	120.0400
Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Turnovers:	1.7368
Tumover Factor:	1.0000
Maximum Liquid Volume (gal):	11,374.3983
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	11.0000
Working Loss Product Factor:	1.0000
otal Losses (lb);	1.6055

Emissions Report for: Annual

2005 Tank 68 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Cracked Heavy Oil Alkyl Amines	1.18	0.42	1.61						
Toluene	0.03	0.01	0.04						
Diethylene Triamine (DETA)	0.16	0.06	0.22						
Ethylbenzene	0.05	0.02	0.07						
Xylene (-m)	0.10	0.03	0.13						
1,2,4-Trimethylbenzene	0.10	0.03	0.13						
Benzene	0.00	0.00	0.00						
Hexane (-n)	0.00	0.00	0.00						
Unidentified Components	0.74	0.27	1.01						

Identification

User Identification: City: State: Company:

2005 Tank 69 Blackfoot ldaho Idaho Asphalt

Type of Tank: Description:

Vertical Fixed Roof Tank Cracked Heavy Oil Alkyl Amines Storage

Tank Dimensions

Shell Helght (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers: 16,00 11.00 16.00 14.40 11,374.40 1.74 Net Throughput(gal/yr): 19,755.00

Is Tank Heated (y/n):

Paint Characteristics Shell Color/Shade:

Shell Condition Roof Color/Shade: Roof Condition: Aluminum/Diffuse Good

Aluminum/Diffuse Good

Roof Characteristics

Type: Height (ft) Slope (ft/ft) (Cone Roof) Cone

0.34 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 69 - Vertical Fixed Roof Tank Blackfoot, Idaho

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		Daily Liquid Surf. Temperature (deg F)					(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	
Mixture/Component	Month	Avg.	Min.	Max.	(,	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
Cracked Heavy Oil Alkyl Amines	All	115.00	110.00	120.00	115.00	0.0200	0.0190	0.0210	125.5466		n remaile con malener com a casses	167.36
1,2,4-Trimethylbenzene Benzene						0.1421 4.5082	0.1215 4.0391	0.1657	120.1900	0.0085	0.0805	120.19
Diethylene Triamine (DETA)						0.0136	0.0113	5.0204 0.0163	78.1100 103.1700	0.0000 0.1500	0.0020 0.1361	78.11 103.17
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0011	0.0433	108.17
Hexene (-n)						6.8089	6.1399	7,5349	86.1700	0.0000	0.0004	86.17
Toluene Unidentified Components						1.5030	1.3288	1.6958	92.1300	0.0003	0.0272	92.13
Xylene (-m)						0.0152	0.0132	0.0132	140.5942	0.8377	0.6285	189.78
vitorio (-111)						0.4984	0.4339	0.5708	106.1700	0.0025	0.0819	106.17

2005 Tank 69 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	0.4245
Vapor Space Volume (cu ft):	162.9439
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9982
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	162.9439
Tank Diameter (ft): Vapor Space Outage (ft):	11.0000
Tank Shell Height (ft):	1.7146 16.0000
Average Liquid Height (ft):	14.4000
Roof Outage (ft):	0.1146
Roof Oulage (Cone Roof)	
Roof Outage (ft):	0.1146
Roof Height (ft):	0.3438
Roof Stope (ft/ft): Shell Radius (ft):	0.0625
	5.5000
Vapor Density Vapor Density (lb/cu ft):	0,0004
Vapor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Daily Average Liquid	120,0400
Surface Temperature (psia):	0.0200
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.704
(psia cuft / (lb-mol-deg R)): Liquid Bulk Temperature (deg. R);	10.731 574.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Dally Vapor Temperature Range (deg. R); Dally Vapor Pressure Range (psia);	10.0000 0.0020
Breather Vent Press, Setting Range(psia);	0.0020
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0200
Vapor Pressure at Dally Minimum Liquid	
Surface Temperature (psia):	0.0190
Vapor Pressure at Dally Maximum Liquid	0.0040
Surface Temperature (psla): Daily Avg. Liquid Surface Temp. (deg R):	0.0210
Daily Min, Liquid Surface Temp. (deg R):	574.6700 569.6700
Daily Max. Liquid Surface Temp. (deg R):	579.6700
Dally Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psla);	0.0200
Vapor Space Outage (ft):	1.7146
Working Losses (ib):	1.1810
Vepor Molecular Weight (lb/lb-mole):	125.5466
Vapor Pressure at Dally Average Liquid Surface Temperature (psia):	0.0200
Annual Net Throughput (gal/yr.):	19,755.0000
Annual Turnovers:	1.7368
Turnover Factor:	1.0000
Maximum Liquid Volume (gal);	11,374.3983
Maximum Liquid Helght (fl):	16.0000
Tank Diameter (ft):	11.0000
Working Loss Product Factor:	1.0000
Tatal I annua di N	
Total Losses (lb):	1.6055

Emissions Report for: Annual

2005 Tank 69 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)							
Components	Working Loss	Breathing Loss	Total Emissions					
Cracked Heavy Oil Alkyl Amines	1.18	0.42	1.61					
Toluene	0.03	0.01	0.04					
Diethylene Triamine (DETA)	0.16	0.06	0.22					
Ethylbenzene	0.0,5	0.02	0.07					
Xylene (-m)	0.10	0.03	0.13					
1,2,4-Trimethylbenzene	0.10	0.03	0.13					
Benzene	0.00	0.00	0.00					
Hexane (-n)	0.00	0.00	0.00					
Unidentified Components	0.74	0.27	1.01					

Identification

User Identification: City: State: Company:

Blackfoot Idaho Idaho Asphalt

2005 Tank 7

Vertical Fixed Roof Tank Asphalt Cement Storage Type of Tank: Description:

Tank Dimensions

Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr):

40.00 42.00 40.00 36.00 414,554.52 5.49 2,276,938.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Shell Condition

Aluminum/Diffuse

Roof Color/Shade: Roof Condition:

Aluminum/Diffuse

Good

Roof Characteristics

Type:

Cone

Height (ft) Slope (ft/ft) (Cone Roof)

1.31 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 7 - Vertical Fixed Roof Tank Blackfoot, Idaho

while the material transfer makes the control of th	t and the state of							market out on the out face			and the second second	THE TOURS OF STREET
			illy Liquid Si perature (de		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liqu i d Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max,	Welght.	Fract.	Fract.	Weight
Fill deal fill depoints making belief against many in many in a constitution of management and constitution of a				et Armet, et et france a s	24420 star New Year are reserved as		************	*******	man sam sa meshina dindigan ni hindosom sa s	er i Norman er de Santon Santon er en de en		
Asphalt Cement	Αlł	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 7 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	PTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Standing Losses (lb):	6.6873
Vapor Space Volume (cu ft):	6,147.9005
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9957
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft);	6,147.9005
Tank Dlameter (ft):	42.0000
Vapor Space Outage (ft): Tank Shell Height (ft):	4.4375
Average Liquid Height (ft):	40.0000 38.0000
Roof Outage (ft):	0.4375
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.4376
Roof Height (ft):	1.3125
Roof Slope (fl/fl);	0.0625
Shell Radius (ft):	21.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg. R):	0.0183
Dally Average Ambient Temp. (deg. F):	784.6700 46.3542
Ideal Gas Constant R	40.0042
(psla cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof): Daily Total Solar Insulation	0.6000
Factor (Blu/sqft day):	1,371.0030
	,
Vapor Space Expansion Factor Vapor Space Expansion Factor:	0.0404
Daily Vapor Temperature Range (deg. R):	0.0131 10.0000
Daily Vapor Pressure Range (psia);	0.0049
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Dally Average Liquid	
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia); Vapor Pressure at Dally Maximum Liquid	0.0160
Surface Temperature (psia);	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9957
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psta): Vapor Space Outage (ft):	0.0183
	4.4375
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0400
Annual Net Throughput (gat/yr.):	0.0183 2,276,938.0000
Annual Turnovers:	5.4925
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	414,554.5153
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft); Working Loss Product Factor;	42.0000
MANUAL COSS PRODUCT LEGIOL:	1,0000
fotal Losses (ib):	110.7243

Emissions Report for: Annual

2005 Tank 7 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss	Breathing Loss	
Asphalt Cement	104.04	6.69	

Identification

User Identification: City: State: Company: Type of Tank:

Idaho Idaho Asphalt Vertical Fixed Roof Tank Asphalt Cement Storage

2005 Tank 74 Blackfoot

Tank Dimensions

Description:

Shell Height (ft):
Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers: 32.00 34.50 32.00 28,80 223,774.84 10.18 Net Throughput(gal/yr): 2,276,938.00 Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: AlumInum/Diffuse Shell Condition Good Aluminum/Diffuse Good Roof Color/Shade:

Roof Condition:

Roof Characteristics

Type: Cone

Height (ft) Slope (ft/ft) (Cone Roof) 1.08 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig) 0.00 0.00

2005 Tank 74 - Vertical Fixed Roof Tank Blackfoot, Idaho

hade a ment of the management of the second	***************	e			d reserve established and conserve	e contra transcription per primer	managada 120mm anga pan		*****************		and a transport of the second second second second	
			ally Liquid S perature (d		Liquid Bułk Temp	Vapo	x Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Moł.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min,	Max.	Weight.	Fract.	Fract.	Weight
and the second description of the first of the second contract of th		*****		to an Administration and Asset Transport		er anne analosa og vær gengen fyringen sjær	- Problem Book State As-					
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0835	0.0564	0.0713	105.0000			1,000.00

2005 Tank 74 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	resorting to come in the series of a series (p. nov. Long instant) on
Allindar Emission Calcaulations	w majoriwoossaas, o oossaas oo ah a' da miiyadaydayday ya dag
Standing Losses (lb):	11.7686
Vapor Space Volume (cu fl):	3,327.3677
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9882
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,327.3677
Tank Diameter (ft):	34.5000
Vapor Space Outage (ft):	3.5594
Tank Shell Height (ft):	32.0000
Average Liquid Height (ft): Roof Outage (ft):	28.8000 0.3594
radi duago (ii).	0.3334
Roof Outage (Cone Roof)	
Roof Oulage (ft):	0.3594
Roof Height (ft):	1.0781
Roof Slope (ft/ft): Shell Radius (ft):	0.0625 17.2500
, ,	77.2000
Vapor Density Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Dally Avg. Liquid Surface Temp. (deg. R):	834.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	10 721
(psia cuft / (lb-mol-deg R));	10.731 834.6700
Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	0.000
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia); Vapor Pressure at Daily Minimum Liquid	0.0635
Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Maximum Liquid	0.0004
Surface Temperature (psia):	0.0713
Daily Avg. Liquid Surface Temp. (deg R):	834.6700
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Ambient Temp. Range (deg. R);	25.8250
/ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9882
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	3.5594
Vorking Losses (lb):	361.4078
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia);	0.0005
Annual Nat Throughput (gal/yr.):	0.0635
Annual Turnovers:	2,276,938.0000 10.1751
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	223,774.8353
Maximum Liquid Height (ft):	32.0000
Tank Diameter (ft):	34,5000
Working Loss Product Factor:	1.0000
otal Losses (lb):	373,1764

Emissions Report for: Annual

2005 Tank 74 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components		Breathing Loss	Total Emissions						
Asphalt Cement	361,41		373.18						

2005 Tank 2320-1 - Vertical Fixed Roof Tank Blackfoot, Idaho

Mandandara and an annual and an analysis and an analysis of the state	
Annual Emission Calcaulations	·
Standing Losses (lb):	0.0462
Vapor Space Volume (cu ft):	79.7784
Vapor Density (lb/cu ft):	0.0001
Vapor Space Expansion Factor:	0.0134
Vented Vapor Saturation Factor:	0.9990
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	79.7784
Tank Dlameter (ft): Vapor Space Outage (ft):	7.0000
Tank Shell Height (ft):	2.0730 7.0000
Average Liquid Height (ft):	5.0000
Roof Outage (ft):	0.0730
Roof Outage (Cone Roof)	
Roof Oulage (ft):	0.0730
Roof Height (fl):	0.2190
Roof Slope (fl/ft):	0.0600
Shell Radius (fl):	3.5000
Vapor Density	
Vapor Density (lb/cu ft):	0.0001
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	0.0092
Surface Temperature (psla): Delly Avg. Liquid Surface Temp. (deg. R):	759.6700
Daily Average Ambient Temp. (deg. F);	46.3542
Ideal Gas Constant R	40.0072
(psia cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	759.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	1 271 0020
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	20404
Vapor Space Expansion Factor; Daily Vapor Temperature Range (deg. R);	0.0134 10.0000
Daily Vapor Pressure Range (psia):	0.0026
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	0.000
Surface Temperature (psia):	0.0092
Vapor Pressure at Dally Minimum Liquid	
Surface Temperature (psia);	0.0080
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0106
Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R):	759.6700
Daily Max. Liquid Surface Temp. (deg R):	754.6700 764.6700
Daily Amblent Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor Vented Vapor Saturation Factor;	0.9990
Vented Vapor Saturation Factor: Vepor Pressure at Daily Average Liquid:	ດາລສລດ
Surface Temperature (psia):	0.0092
Vapor Space Oulage (ft):	2.0730
Working Losses (lb):	4.7242
Vapor Molecular Weight (lb/lb-mole);	105.0000
Vapor Pressure at Dally Average Liquid	
Surface Temperature (psia):	0.0092
Annual Net Throughput (gal/yr.):	866,815.0000
Annual Turnovers:	430.1394
Turnover Factor:	0.2364
Maximum Liquid Volume (gal):	2,015.1958
Maximum Liquid Height (ft):	7.0000
Tank Diameter (ft): Working Loss Product Factor:	7.0000 1.0000
realing made I reduct I solor.	1.0000
Fotel Losses (lb):	4.7704
rotal Eddaga (ID).	4.7704

Emissions Report for: Annual

2005 Tank 2320-1 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Asphalt Cement	4.72	0.05	4.77						

Identification

User Identification: City: State:

Company: Type of Tank: Description:

2005 Tank 24 Blackfoot ldaho

idaho Asphalt Vertical Fixed Roof Tank Catalytic Cracked Oil Storage

Tank Dimensions

Shell Height (ft): Diameter (ft): 32.00 12.00 Liquid Height (ft): 32.00 Avg. Liquid Height (ft): Volume (gallons): 28.80 27,072.95 Turnovers: 8.78 237,572.00 Net Throughput(gal/yr): Is Tank Heated (y/n): Υ

Paint Characteristics Aluminum/Diffuse Shell Color/Shade:

Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Туре: Cone

Height (ft) 0.38 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

2005 Tank 24 - Vertical Fixed Roof Tank Blackfoot, Idaho

er til en til state i er stil er stat er stat i det state state i det state i de state de de state de state de												
	Daily Liquid Surf. Temperature (deg F)		Liquid Bulk Temp	Bulk			Vapor Mol.	Lłquid Vapor Mass Mass		Mol.		
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
SC Cutter	All	95.00	90.00	100.00	95.00	0.0191	0.0220	0.0165	130.0000			188.00
1,2,4-Trimethylbenzene						0.0743	0.0626	0.0878	120.1900	0.0100	0.0562	120.19
Benzene						2.8635	2.5405	3.2193	78.1100	0.0000	0.0017	78.11
Ethylbenzene						0.3336	0.2873	0.3862	106.1700	0.0013	0.0328	106.17
Hexane (-n)						4.4426	3.9698	4.9599	86.1700	0.0000	0.0003	86.17
Toluene						0.9034	0.7899	1.0303	92.1300	0.0003	0.0219	92.13
Unidentified Components						0.0154	0.0138	0.0148	135.9530	0.9855	0.8252	189.78
Xylene (-m)						0.2811	0.2417	0.3259	108.1700	0.0029	0.0617	106.17

2005 Tank 24 - Vertical Fixed Roof Tank Blackfoot, Idaho

unual Emission Calcaulations	
itanding Losses (lb):	1.0037
Vapor Space Volume (cu ft):	376.0486
Vapor Density (lb/cu ft):	0.0004
Vapor Space Expansion Factor:	0.0176
Vented Vapor Saturation Factor:	0.9966
ank Vapor Space Volume:	
Vapor Space Volume (cu ft):	376.0486
Tank Diameter (fl):	12.0000
Vapor Space Outage (ft):	3.3250
Tank Shell Height (ft):	32.0000
Average Liquid Height (ft); Roof Outage (ft):	28.8000 0.1250
toof Outage (Cone Roof) Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radkus (ft):	6.0000
repor Density	
Vapor Density (lb/cu ft):	0.0004
Vapor Molecular Weight (ib/lb-mole):	130,0000
Vapor Pressure at Daily Average Liquid	0.0404
Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg. R):	0.0191 554.6700
Daily Average Ambient Temp. (deg. F):	46,3542
Ideal Gas Constant R	10,0042
(psla cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	554,6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
apor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0176
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	-0.0055
Breather Vent Press, Setting Range(psia): Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0191
Vapor Pressure at Daily Minimum Liquid	0.0131
Surface Temperature (psia):	0.0220
Vapor Pressure at Daily Maximum Liquid	3.022.
Surface Temperature (psia):	0.0165
Dally Avg. Liquid Surface Temp. (deg R):	554,6700
Daily Min. Liquid Surface Temp. (deg R):	549.6700
Daily Max. Liquid Surface Temp. (deg R):	559.6700
Dally Ambient Temp. Range (deg. R):	25.8250
ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9966
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0191
Vapor Space Outage (ft):	3,3250
Vorking Losses (lb):	14.0450
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid	0.0404
Surface Temperature (psia):	0.0191
Annual Net Throughput (gal/yr.): Annual Turnovers:	237,572,0000 8,7753
Turnover Factor:	1,000
Maximum Liquid Volume (gal):	27,072.9479
Maximum Liquid Volume (gar). Maximum Liquid Height (ff):	32.0000
mezonam esquia i reigin (n).	12.0000
Tank Diameter (ft): Working Loss Product Factor:	1.0000
Tank Diameter (ft):	1.0000

Emissions Report for: Annual

2005 Tank 24 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)							
Components	Working Loss	Breathing Loss	Total Emissions					
SC Cutter	14.05	1.00	15.05					
Hexane (-n)	0.00	0.00	0.01					
Benzene	0.02	0.00	0.03					
Toluene	0.31	0.02	0.33					
Ethylbenzene	0.46	0.03	0.49					
Xylene (-m)	0.87	0.06	0.93					
1,2,4-Trimethylbenzene	0.79	0.06	0.85					
Unidentified Components	11.59	0,83	12.42					

Identification

User Identification: City:

State:

Company: Type of Tank:

Description:

2005 Tank 25 Blackfoot

Idaho Idaho Asphalt

Vertical Fixed Roof Tank #1 Diesel Fuel Storage

Tank Dimensions

Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft): Volume (gallons): Turnovers:

21.00 18.90 17,766.62 52.54 933,420.00

Net Throughput(gal/yr): Is Tank Heated (y/n): Ν

Paint Characteristics

Shell Color/Shade:

Shell Condition

Roof Color/Shade:

Aluminum/Diffuse

Good

Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Cone

Slope (ft/ft) (Cone Roof)

0.38 0.06

21.00

12.00

Breather Vent Settings

Vacuum Settings (psig):

-0.03 0.03

Pressure Settings (psig)

2005 Tank 25 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Dally Liquid Surf. Temperature (deg F)			Liquid Bulk Temp Vapor Pressure (psia)			Vapor Mol.	Liquid Mass	Vapor Mass	Mol.		
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Мах.	Weight.	Fract.	Fract.	Weight
Fuel Oil #1	Ail	54.31	43.90	64.72	48.95	0.0515	0.0500	0.0600	86.3479	***************************************	**************************************	160.32
1,2,4-Trimelhy/benzene						0.0162	0.0104	0.0246	120.1900	0.0020	0.0012	120.19
Benzene						0.9952	0.7343	1.3291	78.1100	0.0000	0.0012	78.11
Ethylbenzene						8880.0	0.0606	0.1277	106.1700	0.0013	0.0041	106.17
Hexane (-n)						1.6468	1.2384	2.1603	86.1700	0.0000	0.0024	86.17
Toluene						0.2759	0.1961	0.3817	92.1300	0.0011	0.0112	92.13
Unidentified Components						0.0508	0.0502	0.0503	88.0659	0.9925	0.9718	160.93
Xylene (-m)						0.0738	0.0502	0.1065	106.1700	0.0031	0.0081	106.17

2005 Tank 25 - Vertical Fixed Roof Tank Blackfoot, Idaho

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Annual Emission Calcaulations	ancod e de made masses na mende en meseonne mendamente me
Standing Losses (lb):	5.6664
Vapor Space Volume (cu ft):	251.6416
Vapor Density (lb/cu ft):	8000,0
Vapor Space Expansion Factor:	0.0770
Vented Vapor Saturation Factor:	0.9940
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	251.6416
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	2.2250
Tank Shell Height (ft):	21.0000
Average Liquid Height (ft): Roof Outage (ft):	18.9000 0.1250
Roof Outage (Cone Roof)	
Roof Oulage (it):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
Vapor Density	
Vapor Density (Ib/cu ft):	0.0008
Vapor Molecular Weight (lb/lb-mole):	86.3479
Vapor Pressure at Daily Average Liquid	0.0545
Surface Temperature (psia):	0.0515 513.9787
Daily Avg. Liquid Surface Temp. (deg. R): Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.3342
(osla cuft / (lb-mol-deg R)):	10.731
(psia cuft / (lb-mol-deg R)): Liquid Bulk Temperature (deg. R):	508.6242
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	0.0770
Vapor Space Expansion Factor:	0.0770 41.6269
Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure Range (psia):	0.0100
Breather Vent Press, Setting Range(psia);	0.0600
Vapor Pressure at Daily Average Liquid	******
Surface Temperature (psla):	0.0515
Vapor Pressure at Dally Minimum Liquid	
Surface Temperature (psia):	0.0500
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0800
Daily Avg. Liquid Surface Temp. (deg R):	513.9787
Daily Min. Liquid Surface Temp. (deg R):	503.5720 524.3854
Daily Max. Liquid Surface Temp. (deg R): Daily Amblent Temp. Range (deg. R):	25.8250
	20.0200
Vented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.9940
Vapor Pressure at Daily Average Liquid:	0.0040
Surface Temperature (psia):	0.0515
Vapor Space Outage (ft):	2.2250
Working Losses (lb):	72.9049
Vapor Molecular Weight (ib/ib-mole):	86.3479
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0515
Annual Net Throughput (gal/yr.):	933,420.0000
Annual Turnovers:	52.5378
Turnover Factor:	0.7377
Maximum Liquid Volume (gal);	17,766.6221
Maximum Liquid Height (ft): Tenk Diameter (ft):	21.0000 12.0000
Tank Diameter (ft): Working Loss Product Factor:	1,0000
Total Losses (lb):	78.5713

Emissions Report for: Annual

2005 Tank 25 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)							
Components	Working Loss	Breathing Loss	Total Emissions					
Fuel Oil #1	72.90	5.67	78.57					
Hexane (-n)	0.17	0.01	0.19					
Benzene	0.09	0.01	0.09					
Toluene	0.82	0.06	0.88					
Ethylbenzene	0.30	0.02	0.32					
Xylene (-m)	0.59	0.05	0.64					
1,2,4-Trimethylbenzene	0.09	0.01	0.09					
Unidentified Components	70.85	5.51	76.36					

Identification

User Identification: City:

State: Company: Type of Tank: Description:

2005 Tank 26r1 Blackfoot ldaho

Idaho Asphalt Vertical Fixed Roof Tank Asphalt Cutback

Tank Dimensions

Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers:

Net Throughput(gal/yr): is Tank Heated (y/n):

32.00 12.00 32.00

28,80 27,072,95 46.72 1,264,862.00

Paint Characteristics

Shell Color/Shade: Shell Condition Roof Color/Shade:

Roof Condition:

Aluminum/Diffuse

Good

Aluminum/Diffuse

Good

Roof Characteristics

Type: Height (ft) Cone

Slope (ft/ft) (Cone Roof)

0.38 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 26r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

 The Bethologies and the Control of Control of the Con	THE COLUMN TO ASSESS OF THE COLUMN THE COLUM											
			sily Liquid S perature (d		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract,	Fract.	Weight
Asphalt Cutback	All	150.00	145.00	155.00	150.00	0.1850	0.0100	0.2000	128.5900		(я споста дамеснаю жистеру золого	276.33
1,2,4-Trimethylbenzene						0.3897	0.3404	0.4450	120.1900	0.0015	0.0067	120.19
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.6850	0.0000	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0000	0.0039	78.11
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0001	0.0016	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0000	0.0026	86.17
Toluene						3.3295	2.9919	3.6975	92.1300	0.0003	0.0126	92.13
Unidentified Components						0.2178	0.2149	0.2163	130.3106	0.3120	0.9582	107.34
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0010	0.0141	106.17

2005 Tank 26r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	15.367
Vapor Space Volume (cu ft):	376.048
Vapor Density (lb/cu ft):	0.003
Vapor Space Expansion Factor:	0.031
Vented Vapor Saturation Factor:	0.968
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	376.048
Tank Diameter (ft): Vapor Space Outage (ft):	12.000
Tank Shell Height (ft):	3.325 32.000
Average Liquid Height (ft);	28.800
Roof Outage (ft):	0.125
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.125
Roof Height (ft):	0.375
Roof Stope (ft/ft):	0.062
Shell Radius (ft):	6.000
Vapor Density	0.000
Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole):	0.003 128.590
Vapor Pressure at Dally Average Liquid	120.080
Surface Temperature (psia):	0.185
Daily Avg. Liquid Surface Temp. (deg. R):	609.670
Daily Average Ambient Temp. (deg. F):	46.354
Ideal Gas Constant R	
(psia cuft / (ib-mot-deg R)):	10.73
Liquid Bulk Temperature (deg. R):	609.670
Tank Paint Solar Absorptance (Shell):	0.600
Tank Paint Solar Absorptance (Roof):	0.600
Daily Total Solar Insulation Factor (Blu/sqft day):	1,371.003
Vapor Space Expansion Factor	
Vapor Space Expansion Factor;	0.031
Daily Vapor Temperature Range (deg. R):	10.000
Daily Vapor Pressure Range (psia):	0.190
Breather Vent Press. Setting Range(psia):	0.000
Vapor Pressure at Dally Average Liquid	
Surface Temperature (psia):	0.185
Vapor Pressure at Daily Minimum Liquid	0.040
Surface Temperature (psia):	0.010
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia);	0.200
Daily Avg. Liquid Surface Temp. (deg R);	609.670
Daily Min. Liquid Surface Temp. (deg R):	604.670
Daily Max. Liquid Surface Temp. (deg R):	614.670
Daily Ambient Temp. Range (deg. R):	25.825
/ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.968
Vapor Pressure at Dally Average Liquid:	0.405
Surface Temperature (psia): Vapor Space Outage (ft):	0.185 3.325
Vorking Losses (lb);	579.435
Vapor Molecular Weight (lb/lb-mole);	128.590
Vapor Pressure at Daily Average Liquid Surface Temperature (psla):	0.185
Annual Net Throughput (gal/yr.):	1,264,862.000
Annual Turnovers:	46.720
Turnover Factor:	0.808
Maximum Liquid Volume (gal):	27,072.947
Maximum Liquid Height (ft):	32.000
Tank Diameter (ft):	12.000
Working Loss Product Factor:	1.000
Total Losses (lb):	594.803

Emissions Report for: Annual

2005 Tank 26r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)							
Components	Working Loss	Breathing Loss	Total Emissions					
Asphalt Cutback	579.44	15.37	594.80					
Asphalt Cement	0.02	0.00	0.02					
Hexane (-n)	1.52	0.04	1.56					
Benzene	2.28	0.06	2.34					
Toluene	7.33	0.19	7.52					
Ethylbenzene	0.95	0.03	0.97					
Xylene (-m)	8.19	0.22	8.41					
1,2,4-Trimethylbenzene	3.90	0.10	4.01					
Unidentifled Components	555.24	14.73	569.97					

Identification

User Identification: Clty: State:

Company: Type of Tank: Description:

2005 Tank 27 Blackfoot ldaho ldaho Asphalt

Vertical Fixed Roof Tank #1 Diesel Fuel Storage

Tank Dimensions Shell Height (ft): 21.00 12.00 Dlameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): 21.00 18.90 17,766.62 52.54 Turnovers: Net Throughput(gal/yr): 933,420.00 Ν

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Aluminum/Diffuse Roof Color/Shade:

Roof Condition: Good

Roof Characteristics

Cone Type:

0.38 Height (ft) Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

-0.03 Vacuum Settings (psig): Pressure Settings (psig) 0.03

2005 Tank 27 - Vertical Fixed Roof Tank Blackfoot, Idaho

									CO POSA CONTRA SERVE			
		Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp	Vapor Pressure (psia)			Vapor Mol.	Liquid Mass	Vapor Mass	Moł.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Fuel Oil #1	All	54.31	43.90	64.72	48.95	0.0515	0.0500	0.0600	86.3479	Notes the real of the state of	Acrostable featurese e error recenturese.	160.32
1,2,4-Trimethylbenzene						0.0162	0.0104	0.0246	120.1900	0.0020	0.0012	120.19
Benzene						0.9952	0.7343	1.3291	78.1100	0.0000	0.0012	78.11
Ethylbenzene						8880.0	0.0606	0.1277	106.1700	0.0013	0.0041	106.17
Нехапе (-n)						1.6468	1.2384	2.1603	86.1700	0.0000	0.0024	86.17
Toluene						0.2759	0.1961	0.3817	92.1300	0.0011	0.0112	92.13
Unidentified Components						0.0508	0.0502	0.0503	86.0659	0.9925	0.9718	160.93
Xylene (-m)						0.0738	0.0502	0.1065	108.1700	0.0031	0.0081	106.17

2005 Tank 27 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	5.6864
Vapor Space Volume (cu ft):	251.6416
Vapor Density (lb/cu ft):	0,0008
Vapor Space Expansion Factor:	0.0770
Vented Vapor Saturation Factor:	0.9940
Fank Vapor Space Volume:	
Vapor Space Volume (cu ft):	251.64 1 6
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft):	2,2250
Tank Shell Height (ft):	21.0000
Average Liquid Height (ft): Roof Outage (ft):	18.9000 0.1250
Roof Outage (Cone Roof) Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (fl/fi):	0.0825
Shell Radius (ft):	6.0000
Japor Density	
Vapor Density (lb/cu ft):	0.0008
Vapor Molecular Weight (Ib/lb-mole):	86.3479
Vapor Pressure at Daily Average Liquid	0.0515
Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg. R):	513.9787
Daily Avg. Eduid Striace Temp. (deg. N). Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.0042
(psla cuft / (ib-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	508.6242
Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0770
Dally Vapor Temperature Range (deg. R):	41.6269
Daily Vepor Pressure Range (psla);	0.0100
Breather Vent Press, Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid	0.0544
Surface Temperature (psia):	0.0515
Vapor Pressure at Daily Minimum Liquid	0.0500
Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid	0.0000
Surface Temperature (psia):	0.0600
Daily Avg. Liquid Surface Temp. (deg R):	513.9787
Daily Min. Liquid Surface Temp. (deg R):	503.5720
Daily Max. Liquid Surface Temp. (deg R):	524.3854
Daily Amblent Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9940
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0518
Vapor Space Outage (ft):	2.2250
Working Losses (ib):	72.9049
Vapor Molecular Weight (lb/lb-mole):	86.3479
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.051
Annual Net Throughput (gal/yr.):	933,420.000
Annual Turnovers:	52.5378
Turnover Factor;	0.737
Meximum Liquid Volume (gal):	17,766,622
	21.0000
Meximum Liquid Height (ft):	
Meximum Liquid Helght (ft): Tank Diameter (ft):	
Meximum Liquid Height (ft):	12.0000 1.0000

Emissions Report for: Annual

2005 Tank 27 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(ibs)						
Components	Working Loss	Breathing Loss	Total Emissions				
Fuel Oil #1	72.90	5.67	78.57				
Hexane (-n)	0.17	0.01	0.19				
Benzene	0.09	0.01	0.09				
Toluene	0.82	0.06	0.88				
Ethylbenzene	0.30	0.02	0.32				
Xylene (-m)	0.59	0.05	0.64				
1,2,4-Trimethylbenzene	0.09	0.01	0.09				
Unidentified Components	70.85	5.51	76.36				

Identification

User Identification: 2005 Tank 28r1 City: Blackfoot State: ldaho Company: Type of Tank: Idaho Asphalt Vertical Fixed Roof Tank

Asphalt Cutback

Description:

Tank Dimensions

Shell Height (ft): 32.00 Diameter (ft): 12.00 Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): 32.00 28.80 27,072.95 Turnovers: 46.72 Net Throughput(gal/yr): 1,264,862.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Aluminum/Diffuse Roof Color/Shade:

Roof Condition: Good

Roof Characteristics

Cone Type:

Height (ft) 0.38 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

2005 Tank 28r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			ally Liquid S perature (d		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Asphalt Cutback	All	150.00	145.00	155.00	150.00	0.1850	0.0100	0.2000	128.5900			276.33
1,2,4-Trimethylbenzene						0.3897	0.3404	0.4450	120.1900	0.0015	0.0067	120.19
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.6850	0.0000	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0000	0.0039	78.11
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0001	0.0016	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0000	0.0026	86.17
Totuene						3.3295	2.9919	3.6975	92.1300	0.0003	0.0126	92.13
Unidentified Components						0.2178	0.2149	0.2163	130.3106	0.3120	0.9582	107.34
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0010	0.0141	106.17

2005 Tank 28r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcautations	
Standing Losses (lb):	15.3679
Vapor Space Volume (cu ft):	376.0486
Vapor Density (lb/cu ft):	0.0036
Vapor Space Expansion Factor:	0.0318
Vented Vapor Saturation Factor:	0.9684
Tank Vapor Space Volume:	270.0400
Vapor Space Volume (cu ft):	376.0486
Tank Diameter (ft): Vapor Space Outage (ft):	12,0000 3,3250
Tank Shell Height (fl):	32.0000
Average Liquid Height (ft):	28.8000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6,0000
/epor Density	
Vapor Density (lb/cu fl):	0.0036
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Dally Average Liquid	0.1850
Surface Temperature (psla); Daily Avg. Liquid Surface Temp. (deg. R);	609.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	10.0012
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	609.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Japor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0318
Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure Range (psia):	10.0000 0.1900
Breather Vent Press. Setting Range(psia);	0.0000
Vapor Pressure at Daily Average Liquid	0.000
Surface Temperature (psia):	0.1850
Vapor Pressure at Dally Minimum Liquid	*****
Surface Temperature (psia):	0.0100
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia);	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Dally Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R):	614.6700 25,8250
	20,0200
/ented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.9684
Vapor Pressure at Daily Average Liquid:	0.000
Surface Temperature (psia):	0.1850
Vapor Space Outage (ft):	3.3250
Vorking Losses (lb):	579.4350
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr.):	1,264,862.0000
Annual Turnovers:	46.7205
Turnover Factor: Maximum Liquid Volume (gat):	0.8086 27,072.9479
Maximum Liquid Volume (gar): Maximum Liquid Height (ft):	32.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
•	
otal Losses (lb):	594,8030
· · · · · · · · · · · · · · · · · ·	

Emissions Report for: Annual

2005 Tank 28r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Asphalt Cutback	579.44	15.37	594.80						
Asphalt Cement	0.02	0.00	0.02						
Hexane (-n)	1.52	0.04	1.56						
Benzene	2.28	0.06	2.34						
Toluene	7.33	0.19	7.52						
Ethylbenzene	0.95	0.03	0.97						
Xylene (-m)	8.19	0.22	8.41						
1,2,4-Trimethylbenzene	3.90	0.10	4.01						
Unidentified Components	555.24	14.73	569.97						

Identification

User Identification: City: State:

ldaho Company: Type of Tank: Description: Idaho Asphalt Vertical Fixed Roof Tank Naphtha Storage

Tank Dimensions

Shell Height (ft): 21,00 Diameter (ft): 12.00 Liquid Height (ft): 21.00 Avg. Liquid Height (ft): Volume (gallons): 18.90 17,766.62 Turnovers: 12.37 Net Throughput(gal/yr): 219,797.00 Ν

2005 Tank 29 Blackfoot

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse

Shell Condition Good

Aluminum/Diffuse Roof Color/Shade:

Roof Condition: Good

Roof Characteristics

Cone Height (ft)

0,38 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): -0.03 Pressure Settings (psig) 0.03

2005 Tank 29 - Vertical Fixed Roof Tank Blackfoot, Idaho

											turce and a second and a second	Contrates makes a security.
			illy Liquid S perature (d		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
Naphtha-User Input	All	54.31	43.90	64.72	48.95	0.5532	0.4000	1.4013	120.0000			120.00
Benzene						0.9952	0.7343	1.3291	78.1100	0.0010	0.0018	78.11
Cyclohexane						1.0362	0.7701	1.3746	84.1600	0.0120	0.0225	84.16
Ethylbenzene						0.0888	0.0606	0.1277	106.1700	0.0050	8000.0	106.17
Hexane (-n)						1.6468	1.2384	2.1603	86.1700	0.0150	0.0447	86.17
Isopropyi benzene						0.0412	0.0273	0.0609	120.2000	0.0020	0.0001	120.20
Toluene						0.2759	0.1961	0.3817	92.1300	0.0200	0.0100	92.13
Unidentified Components						0.5450	0.5070	0.5217	124.2870	0.9200	0.9168	122.87
Xylene (-m)						0.0738	0.0502	0.1065	108.1700	0.0250	0.0033	106.17

2005 Tank 29 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (fb);	165.6266
Vapor Space Volume (cu ft):	251.6416
Vapor Density (tb/cu ft):	0.0120
Vapor Space Expansion Factor:	0.1596
Vented Vapor Saturation Factor:	0.9388
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	251.6416
Tank Diameter (ft): Vapor Space Outage (ft):	12.0000
Tank Shell Height (ft):	2.2250 21.0000
Average Liquid Height (ft):	18.9000
Roof Oulage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (fl/ft):	0.0625
Shell Radius (ft):	6.0000
/apor Density	
Vapor Molacular Walch (Ibith male):	0,0120
Vapor Molacular Weight (lb/lb-mole); Vapor Pressure at Daily Average Liquid	120,0000
Surface Temperature (psia):	0.5532
Daily Avg. Liquid Surface Temp. (deg. R);	513.9787
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	508.6242
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Blu/sqft day):	1,371.0030
/ O Francisc Protes	
Vapor Space Expansion Factor Vapor Space Expansion Factor:	0.1598
Daily Vapor Temperature Range (deg. R):	41.6269
Daily Vapor Pressure Range (psia):	1.0013
Breather Vent Press. Setting Range(psia):	0.0600
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5532
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia);	0.4000
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	1.4013
Dally Avg. Liquid Surface Temp. (deg R): Dally Min. Liquid Surface Temp. (deg R):	513.9787
Daily Max. Liquid Surface Temp. (deg R);	503.5720 524.3854
Daily Amblent Temp. Range (deg. R):	25.8250
/ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9388
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.5532
Vapor Space Outage (ft):	2.2250
Vorking Losses (lb):	347.4049
Vepor Molecular Weight (ib/lb-mole):	120.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.5532
Annual Net Throughput (gal/yr.):	219,797.0000
Annual Turnovers: Turnover Factor:	12,3713
Maximum Liquid Volume (gal);	1.0000 17,766.6221
Maximum Liquid Volume (gal); Maximum Liquid Height (ft);	21.0000
Tank Diameter (ft):	12.0000
Working Loss Product Factor:	1.0000
Fotal Losses (lb);	513.0314
·	010/0014

Emissions Report for: Annual

2005 Tank 29 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Naphtha-User Input	347.40	165.63	513.03						
Hexane (-n)	15.51	7.40	22.91						
Benzene	0.62	0.30	0.92						
Toluene	3.46	1.65	5.12						
Ethylbenzene	0.28	0.13	0.41						
Xylene (-m)	1.16	0.55	1.71						
Isopropyl benzene	0.05	0.02	0.08						
Cyclohexane	7.81	3.72	11.53						
Unidentified Components	318.50	151.85	470.35						

Identification

User Identification: City:

State: Company: Type of Tank: Description: 2005 Tank 2r1 Blackfoot Idaho

Idaho Asphalt Vertical Fixed Roof Tank Cutback Storage

Tank Dimensions

Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers:

32.40 41,455.45 30.51 1,264,862.00

36.00 14.00 36.00

Net Throughput(gal/yr): Is Tank Heated (y/n):

Paint Characteristics Shell Color/Shade:

Shell Condition

Roof Color/Shade: Roof Condition:

Aluminum/Diffuse

Good

Aluminum/Diffuse

Good

Υ

Roof Characteristics

Type: Height (ft)

Slope (ft/ft) (Cone Roof)

Cone

0.44 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 2r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

***************************************	**********	*************				***** *************					NAME AND ADDRESS OF THE OWNER,	Server a construction was
			ily Liquid S perature (di		Liquid Buik Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Мах.	Weight.	Fract.	Fract.	Weight
Asphalt Cutback	All	150.00	145.00	155.00	150.00	0.1850	0.0100	0.2000	128.5900	er a comprome a proper a sec ex-	turi Burri, 2 Maserbas muderi Asuerre	276.33
1,2,4-Trimethylbenzene			,	100.00	700100	0.3897	0.3404	0.4450	120.1900	0.0015	0.0067	120.19
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.6850	0.0000	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0000	0.0039	78,11
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0001	0.0018	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0000	0.0026	86.17
Toluene						3.3295	2.9919	3.6975	92.1300	0.0003	0.0126	92.13
Unidentified Components						0.2178	0.2149	0.2163	130.3108	0.3120	0.9582	107.34
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0010	0.0141	106.17

2005 Tank 2r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	23.4711
Vapor Space Volume (cu ft):	578.6262
Vapor Density (lb/cu ft):	0.0036
Vapor Space Expansion Factor:	0.0318
Vented Vapor Saturation Factor:	0.9646
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft): Vapor Space Outage (ft):	14,0000 3,7458
Tank Shell Height (ft):	36,0000
Average Liquid Helght (ft):	32,4000
Roof Outage (ft):	0.145B
Roof Oulage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0,0036
Vapor Molecular Weight (fb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.1850
Daily Avg. Liquid Surface Temp. (deg. R);	609.6700
Daily Average Ambient Temp. (deg. F);	46.3542
Ideal Gas Constant R	40,0042
(psia cuft / (lb-mol-deg R)):	10,731
Liquid Bulk Temperature (deg. R):	609.8700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	20042
Vapor Space Expansion Factor:	0.0318
Dally Vapor Temperature Range (deg. R); Dally Vapor Pressure Range (psia);	10.0000
Breather Vent Press. Setting Range(psia):	0.1900 0.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.1850
Vapor Pressure at Daily Minimum Liquid	211.400
Surface Temperature (psia):	0.0100
Vapor Pressure at Dally Maximum Liquid	
Surface Temperature (psia):	0.2000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Daily Amblent Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.9646
Vapor Pressure at Daily Average Liquid:	U.8040
Surface Temperature (psia):	0.1850
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	716.4284
Vapor Molecular Weight (lb/lb-mole):	128.5900
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.1850
Annual Net Throughput (gal/yr.):	1,264,862.0000
Annual Turnovers:	30.5114
Turnover Factor:	1.0000
Maximum Liquid Volume (gal);	41,455.4500
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft): Working Loss Product Factor:	14.0000 1.0000
Transing 2000 Frounds Findings	1.0000
Total Losses ((b):	739.8995
	,00.0000

Emissions Report for: Annual

2005 Tank 2r1 - Vertical Fixed Roof Tank Blackfoot, Idaho

<u> </u>	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Asphalt Cutback	716.43	23.47	739.90						
Asphalt Cement	0.03	0.00	0.03						
Hexane (-n)	1.88	0.06	1.94						
Benzene	2.82	0.09	2.91						
Toluene	9.06	0.30	9.36						
Ethylbenzene	1.17	0.04	1.21						
Xylene (-m)	10.13	0.33	10.46						
1,2,4-Trimethylbenzene	4.83	0.16	4.98						
Unidentified Components	686.51	22,49	709.00						

Identification

User Identification: City: State: Company:

Blackfoot ldaho ldaho Asphalt

2005 Tank 3

Type of Tank: Description:

Vertical Fixed Roof Tank Lube Oil Storage

Tank Dimensions

Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr):

32.00 12.00 32.00 28.80 27,072.95 5.28 142,857.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Shell Condition Roof Color/Shade: Aluminum/Diffuse

Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Height (ft) Cone

Slope (ft/ft) (Cone Roof)

0.38 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 3 - Vertical Fixed Roof Tank Blackfoot, Idaho

			ily Liquid Si perature (di		Liquid Buik Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
Extender	All	115.00	110.00	120.00	115.00	0.0290	0.0290	0.0290	130.0000	and the contract of the state o		162.00
Benzene						4.5082	4.0391	5.0204	78.1100	0.0000	0.0077	78.11
Ethylbenzene						0.5877	0.5125	0.6720	106.1700	0.0013	0.0321	106.17
Нехале (-n)						6.8089	6.1399	7.5349	86.1700	0.0001	0.0146	86.17
Toluene						1.5030	1.3288	1.6958	92.1300	0.0013	0.0859	92.13
Unidentified Components						0.0212	0.0198	0.0201	142.5814	0.9942	0.7933	162.55
Xylene (-m)						0.4984	0.4339	0.5708	106.1700	0.0031	0.0664	106.17

2005 Tank 3 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	1.4527
Vapor Space Volume (cu ft):	376.0486
Vapor Density (lb/cu ft):	0.0006
Vapor Space Expansion Factor:	0.0174
Vented Vapor Saturation Factor:	0.9949
ank Vapor Space Volume:	
Vapor Space Volume (cu ft):	376.0486
Tank Diameter (ft):	12.0000
Vapor Space Outage (ft); Tank Shell Height (ft);	3.3250 32.0000
Average Liquid Height (ff):	28.8000
Roof Outage (ft):	0.1250
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1250
Roof Height (ft):	0.3750
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	6.0000
/apor Density	
Vapor Density (lb/cu ft):	0.0006
Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid	130.0000
Surface Temperature (psia);	0.0290
Daily Avg. Liquid Surface Temp. (deg. R):	574.6700
Daily Average Ambient Temp. (deg. F);	46.3542
Ideal Gas Constant R	
(psia cuft / (lb-mol-deg R));	10.731
Liquid Buik Temperature (deg. R):	574,6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Blu/sqft day):	1,371,0030
,	,
/epor Space Expansion Factor Vapor Space Expansion Factor;	0.0174
Dally Vapor Temperature Range (deg. R);	10.0000
Dally Vapor Pressure Range (psia):	0.0000
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psła):	0.0290
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0290
Vapor Pressure at Daily Maximum Liquid	0.0000
Surface Temperature (psia); Daily Avg. Liquid Surface Temp. (deg R);	0.0290 574.6700
Daily Min. Liquid Surface Temp. (deg R):	569,6700
Dally Max. Liquid Surface Temp. (deg R):	579.6700
Dally Ambient Temp. Range (deg. R):	25.8250
/ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9949
Vapor Pressure at Daily Average Liquid:	3.77.10
Surface Temperature (psia):	0.0290
Vapor Space Outage (ft):	3.3250
Vorking Losses (lb):	12.8231
Vapor Molecular Weight (ib/ib-mole):	130.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia);	0.0290
Annual Net Throughput (gal/yr.):	142,857.0000
Annual Turnovers:	5.2767
Turnover Factor: Maximum Liquid Volume (gal):	1.0000 27,072.9479
Maximum Liquid Volume (gar): Maximum Liquid Helght (ft);	27,072.9479 32.0000
Tank Diameter (ft):	32.0000 12.0000
Working Loss Product Factor:	1,0000
otal Losses (lb);	14.2759
A	

Emissions Report for: Annual

2005 Tank 3 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss	Total Emissions						
Extender	12.82	1.45	14,28						
Hexane (-n)	0.19	0.02	0.21						
Toluene	1.10	0.12	1.23						
Ethylbenzene	0.41	0.05	0.46						
Xylene (-m)	0.85	0.10	0.95						
Benzene	0.10	0.01	0.11						
Unidentified Components	10.17	1.15	11.32						

Identification

User Identification: City: State: Company: Type of Tank:

Blackfoot Idaho Idaho Asphalt

2005 Tank 320-1

Vertical Fixed Roof Tank Description: Asphalt Cement Storage

Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers:

12.00 12,00 12,00 10.00 10,152.36 449.98 4,568,349.50

Net Throughput(gal/yr): Is Tank Heated (y/n): Υ

Paint Characteristics

Shell Color/Shade: Shell Condition Roof Color/Shade: Roof Condition:

Aluminum/Diffuse Good Aluminum/Diffuse Good

Roof Characteristics

Type: Height (ft) Slope (ft/ft) (Cone Roof) Cone

0.38 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 320-1 - Vertical Fixed Roof Tank Blackfoot, Idaho

The second secon	**************************************		Performance of the second con-	heer oom in it made	Liquid		e de la compania del compania de la compania del compania de la compania del la compania de la c	***************************************	A CONTRACTOR AND ACTION AND ACTION AND ACTION	er ennesis have remarkable to access	telen erinden i narrina arten ette erin ette erin av eri	Mine, make my of course to
			ily Liquid S perature (d		Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Asphalt Cement	All	370.00	365.00	375.00	370.00	0.0564	0.0501	0.0635	105.0000		Palabilitan Palabi specific popular popular se se proposa	1,000.00

2005 Tank 320-1 - Vertical Fixed Roof Tank Blackfoot, Idaho

Standing Losses (fb):		unnual Emission Calcaulations
Vepor Space Volume (cu ft): 240 Vapor Density (b/cu ft): 0 Vapor Space Expansion Factor: 0 Vapor Space Volume: 0 Vapor Space Volume (cu ft): 240 Tank Vapor Space Volume (cu ft): 12 Yapor Space Outage (ft): 12 Tank Dalmatet (ft): 12 Xapor Space Outage (ft): 12 Tank Shell Height (ft): 10 Roof Outage (ft): 0 Roof Outage (ft): 0 Roof Outage (ft): 0 Roof Height (ft): 0 Roof Height (ft): 0 Vapor Density 0 Vapor Density (lb/cu ft): 0 Vapor Density (lb/cu ft): 0 Vapor Density (lb/cu ft): 0 Vapor Pressure at Dally Average Liquid 0 Surface Temperature (psla): 0 Dally Avg. Liquid Surface Temp. (deg. R): 46 Meal Gas Constant R (psla cuf. / (lb-mol-deg R): 46 Lea Gas Constant R (psla cuf. / (lb-mol-deg R): 10 Liquid Butk	0.7616	
Vapor Density (Ib/cu ft): Vapor Space Expansion Factor: Vapor Space Volume: Vapor Space Volume (cu ft): Vapor Space Outage (ft): Vapor Space Outage (ft): Vapor Space Outage (ft): Vapor Space Outage (ft): Vapor Outage (ft): Roof Height (ft): Roof Height (ft): Roof Height (ft): Vapor Density (Ib/cu ft): Vapor Density (Ib/cu ft): Vapor Density (Ib/cu ft): Vapor Density (Ib/cu ft): Vapor Motacutar Weight (ib/lb-mole): Vapor Motacutar Weight (ib/lb-mole): Vapor Pressure at Daity Average Liquid Surface Temperature (psia): Daity Average Amblent Temp. (deg. R): Baily Average Amblent Temp. (deg. R): Baily Average Amblent Temp. (deg. R): Cladid Bulk Temperature (deg. R): Cladid Sulface Temp. (deg. R): Cladid Vapor Temperature (psia): Vapor Space Expansion Factor: Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Marimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Marimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Marimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Marimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Marimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	240.3318	
Vapor Space Expansion Factor:	0.0007	
Vented Vapor Saturation Factor: Fank Vapor Space Volume: Vapor Space Volume (cu ft): Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Helght (ft): Average Liquid Helght (ft): Roof Outage (ft): Roof Siope (ft/ft): Shell Radius (ft): Vapor Densily (lb/cu ft): Vapor Densily (lb/cu ft): Vapor Mofacular Weight (ib/lb-mole): Vapor Mofacular Weight (ib/lb-mole): Vapor Mofacular Weight (ib/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (deg. R): 1 (a) (a) (a) (b) (cu ft): Vapor Mofacular Weight (ib/lb-mole): Vapor Pressure (ft): Average Liquid Surface Temp. (deg. R): Daily Average Amblent Temp. (deg. R): 1 (a) (a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	0.0131	
Tank Vapor Space Volume (cu ft):	0.9937	
Vapor Space Volume (cu ft):	0.9831	vented vapor Saturation racios.
Tank Diameter (ft):	040 0040	
Vapor Space Outege (ft):	240.3318	
Tank Shell Helght (ft): Roof Outage (ft): Roof Helght (ft): Roof Slope (ft/ft): Shell Radius (ft): Shell Radius (ft): Shell Radius (ft): Sapor Density Vapor Density (lb/cu ft): Vapor Mofacular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (ft): Daily Aver Liquid Surface Temp. (deg. R): Baily Average Amblent Temp. (deg. R): Baily Average Amblent Temp. (deg. F): Sapor Space Constant R (psia cuft / (b-mol-deg R)): Liquid Bulk Temperature (deg. R): Baily Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Installation Factor (Blu/sqft day): /apor Space Expansion Factor: Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg. R): Daily Vapor Temperature (psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Oally Avg. Liquid Surface Temp. (deg R): Baily Avg. Liquid Surface Temp. (deg R): Baily Amblent Temp. Range (deg. R): 25 //ented Vapor Saturation Factor Vented Vapor Saturation Factor Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure	12.0000	1 ank Diameter (it):
Average Liquid Helight (ft): Roof Outage (ft): Roof Outage (ft): Roof Outage (ft): Roof Outage (ft): Roof Slope (ft/ft): Roof Slope (ft/ft): Roof Slope (ft/ft): Roof Slope (ft/ft): Apor Density Vapor Density Vapor Density (lb/cu ft): Vapor Molacular Weight (ib/lb-mole): Vapor Molacular Weight (ib/lb-mole): Vapor Molacular Weight (ib/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg. R): Buily Average Ambient Temp. (deg. R): Liquid Bulk Temperature (Roof): Daily Total Solar Insulation Factor (Btu/sqft day): Apor Space Expansion Factor Apor Space Expansion Factor Apor Space Expansion Factor: Daily Vapor Temperature Range (deg. R): Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Oapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Oapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Oaplly Min. Liquid Surface Temp. (deg R): Baily Avg. Liquid Surface Temp. (deg R): Baily Av	2.1250	Vapor Space Outage (R):
Roof Outage (R):	12.0000	1 ank Snell Height (n):
Roof Outage (R):	10.0000 0.1250	
Roof Outage (R): Roof Height (R): Roof Height (R): Roof Height (R): Sheff Radius (R): Vapor Densily Vapor Densily (Ib/cu ft): Vapor Densily (Ib/cu ft): Vapor Densily (Ib/cu ft): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Daily Average Amblent Tempe, (deg. R): Daily Average Amblent Tempe, (deg. F): deal Gas Constant R (psia cu ft / (b-mot-deg R): Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Installation Factor (Blu/sqft day): Apor Space Expansion Factor: Vapor Space Expansion Factor: Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Oally Avg. Liquid Surface Temp. (deg R): Daily Avg. Liquid Surface Temp. (deg R): Daily Amblent Temp. Range (deg. R): Daily Amblent Temp. Range (deg. R): Daily Amblent Temp. Range (deg. R): Daily Avg. Liquid Surface Temp. (deg R): Daily Avg. Liquid Surface Temp. (deg R): Daily Amblent Temp. Range (deg. R): Daily Amblent Temp. Ran		
Roof Halght (Å): Roof Slope (th/th): Shell Radius (It): Appor Density Vapor Density (Ib/cu ft): Vapor Density (Ib/cu ft): Vapor Mofacular Weight (Ib/Ib-mole): Vapor Mofacular Weight (Ib/Ib-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Daily Average Amblent Temp. (deg. R): Baily Average Amblent Temp. (deg. F): Ideal Gas Constant R (gela cut ft/ Ib-mol-deg R): Uquid Bulk Temperature (deg. R): Uquid Bulk Temperature (deg. R): Uquid Bulk Temperature (deg. R): Uquid Bulk Temperature (Roof): Daily Total Solar Insulation Factor (Blu/sqft day): Apor Space Expansion Factor Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg. R): Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure Range (psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Daily Avp. Liquid Surface Temp. (deg R): Daily Avp. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface	0.1250	
Roof Slope (I/III);	0.3750	
Shell Radius (ft): 6.	0.0600	Roof Slope (ft/ft):
Vapor Density (lb/bu ft); 0 0 105	6.0000	Shell Radius (ft):
Vapor Density (lb/bu ft); 0 0 105		apor Densily
Vapor Pressure at Daily Äverage Liquid 0 Surface Temperature (psla): 0 Daily Avg. Liquid Surface Temp. (deg. R): 829 Daily Average Amblent Temp. (deg. F): 46 tdeal Gas Constant R (gsla cult / (lo-mol-deg R)): 19 Liquid Bulk Temperature (deg. R): 829 Tank Paint Solar Absorptance (Roof): 0 Daily Total Solar Insulation 6 Factor (Blu/sqft day): 1,371 /apor Space Expansion Factor 0 Vapor Space Expansion Factor: 0 Vapor Space Expansion Factor: 0 Vapor Pace Expansion Factor: 0 Vapor Peasure Range (psla): 0 Vapor Pressure Range (psla): 0 Vapor Pressure Range (psla): 0 Vapor Pressure at Daily Mexemul Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid 829 Daily Myn. Liquid Surface Temp. (deg R): 829 Daily Max. Liquid Surface Temp. (deg R): <td>0.0007</td> <td>Vapor Density (lb/cu ft):</td>	0.0007	Vapor Density (lb/cu ft):
Surface Temperature (psia):	105.0000	Vapor Molecular Weight (fb/lb-mole):
Daily Avg. Liquid Surface Temp. (deg. R): 289		
Dally Average Amblent Temp. (deg. F):	0.0564	
Idea Gas Constant R (pala cutt / (lb-mol-deg R)): 1 1 1 1 1 1 1 1 1	829.6700	
(psia cuft / (b-mot-deg R)): Uquid Bulk Temperature (deg. R): 1	46.3542	
Uquid Bulk Temperature (deg. R): 829	10.73	
Tank Paint Solar Absorptance (Shell): 0 Daily Total Solar Insulation Factor (BluSqfi day): 1,371 /apor Space Expansion Factor Vapor Space Expansion Factor: 0 Daily Vapor Temperature Range (deg. R): 10 Daily Vapor Temperature Range (deg. R): 10 Daily Vapor Pressure Range (psla): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): 0 Daily Avg. Liquid Surface Temp. (deg R): 829 Daily Avg. Liquid Surface Temp. (deg R): 829 Daily Max. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 925 /ented Vapor Saturation Factor Vapor Pressure at Daily Average Liquid: 925 Vapor Pressure at Daily Average Liquid: 937 Vapor Pressure at Daily Average Liquid: 937 Vapor Pressure at Daily Average Liquid: 937 Vapor Space Outage (ft): 92 Vapor Molecular Welght (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 93 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 94 Vapor	829.6700	Liquid Bulk Temperature (den R):
Tank Paint Solar Absorptance (Roof): Daily Total Solar Insulation Factor (Blu/sqft day): /apor Space Expansion Factor Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg. R): Daily Vapor Pressure Range (psla): Breather Vent Press. Setting Range(psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Oally Avgo. Liquid Surface Temp. (deg R): Daily Amy. Liquid Surface Temp. (deg R): Baily Min. Liquid Surface Temp. (deg R): Baily Max. Liquid Surface Temp. (deg R): Daily Amblent Temp. Range (deg. R): /onted Vapor Saluration Factor Vanted Vapor Saluration Factor: Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): Vapor Space Outage (ft): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Annual Net Throughput (gal/yr.): Annual Net Throughput (gal/yr.): Annual Turnover: Maximum Liquid Volume (gal): Maximum Liquid Height (ft): Tank Dlameter (ft): 12	0.6000	Tack Paint Solar Absorptance (Shell):
Daily Total Solar Insulation 1,371 /apor Space Expansion Factor 0 Vapor Space Expansion Factor: 0 Daily Vapor Temperature Range (deg. R): 10 Daily Vapor Pressure Range (psla): 0 Breather Vent Press. Setting Range(psla): 0 Vapor Pressure at Daily Average Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psia): 0 Daily Avp. Liquid Surface Temp. (deg R): 829 Daily Max. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 25 Daily Max. Liquid Surface Temp. (deg R): 25 Daily Amblent Temp. Range (deg. R): 25 Vanted Vapor Saturation Factor 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Vapor Molecular Weight (lb/fb-mole): 150 Vapor Pressure at Daily Average	0.6000	Tank Paint Solar Absorptance (Roof):
Factor (Blu/sqft day): factor (Slu/sqft day): fapor Space Expansion Factor: Vapor Space Expansion Factor: Oally Vapor Temperature Range (deg. R): Dally Vapor Temperature Range (deg. R): Oally Vapor Pressure Range (psia): Oally Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Oally Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Oally Avg. Liquid Surface Temp. (deg R): Oally Avg. Liquid Surface Temp. (deg R): Oally Avg. Liquid Surface Temp. (deg R): Oally Amblent Temp. Range (deg. R): Oally Amblent Temp. Range (deg. R): Oally Amblent Temp. Range (deg. R): Oally Capor Saturation Factor Vented Vapor Saturation Factor Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): Oapor Space Outage (ft): Vapor Molecular Weight (lb/lb-mole): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid Surface Temperature (psia): Oapor Pressure at Daily Average Liquid	0.000	Daily Total Solar Insulation
Vapor Space Expansion Factor: 0 Daily Vapor Temperature Range (deg. R): 10 Daily Vapor Fressure Range (psla): 0 Breather Vent Press. Setting Range(psla): 0 Vapor Pressure at Daily Average Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Minimum Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psia): 0 Daily Average Liquid Surface Temp. (deg R): 829 Daily Min. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 834 Daily Max. Liquid Surface Temp. (deg R): 25 Vented Vapor Saturation Factor: 0 Vanted Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Vapor Molecular Weight (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 0 Surface Temp	1,371.0030	
Vapor Space Expansion Factor: 0 Daily Vapor Temperature Range (deg. R): 10 Daily Vapor Pressure Range (psla): 0 Breather Vent Press. Selting Range(psla): 0 Vapor Pressure at Daily Mayerage Liquid 0 Surface Temperature (psla): 0 Vapor Pressure at Daily Minimum Liquid 0 Surface Temperature (psla): 0 Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psla): 0 Daily Avg. Liquid Surface Temp. (deg R): 829 Daily Min. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 834 Daily Max. Liquid Surface Temp. (deg R): 25 Vented Vapor Saturation Factor: 0 Vanted Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psla): 0 Vapor Space Outage (ft): 2 Vapor Molecular Weight (lb/fb-mole): 105 Vapor Pressure at Daily Average Liquid 0 Surface Temper		/anor Soace Expansion Factor
Daily Vapor Temperature Range (deg. R): 10	0.0131	
Daily Vapor Pressure Range (psia); 0	10.0000	
Breather Vent Press. Selting Renge(psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Ressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Min. Liquid Surface Temp. (deg R): Vapor Max. Liquid Surface Temp. (deg R): Vapor Max. Liquid Surface Temp. (deg R): Vapor Max. Liquid Surface Temp. (deg R): Vapor Maximum Liquid Surface Temp. (deg R): Vapor Pressure at Daily Average Liquid: Vapor Pressure at Daily Average Liquid: Vapor Molecular Weight (lb/lb-mole): Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Annual Net Throughput (gal/yr.): Annual Turnovers: 449 Annual Turnovers: 449 Annual Turnover Factor: Maximum Liquid Height (ft): Tank Dlameter (ft): 12	0.0134	
Vapor Pressure at Daily Average Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Minimum Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psia): 0 Daily Avg. Liquid Surface Temp. (deg R): 829 Daily Max. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 834 Daily Amblent Temp. Range (deg. R): 25 /ented Vapor Saturation Factor Vented Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Vapor Molacular Welght (lb/lb-mcle): 150 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnover sator: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	0.0000	
Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): O Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R): 25 Vented Vapor Saturation Factor Vented Vapor Saturation Factor: Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): Daily Ambient Meight (lb/lb-mole): Daily Molecular Weight (lb/lb-mole): Daily Molecular Molecul		
Vapor Pressure at Daily Minimum Liquid 0 Surface Temperature (psia): 0 Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psia): 0 Daily Avg. Liquid Surface Temp. (deg R): 824 Daily Min. Liquid Surface Temp. (deg R): 834 Daily Max. Liquid Surface Temp. (deg R): 334 Daily Amblent Temp. Range (deg. R): 25 Vented Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Working Losses (lb): 150 Vapor Molecular Weight (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnover Scator: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Dlameter (ft): 12	0.0564	
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Vapor Pressure at Daily Maximum Liquid 0 Surface Temperature (psia): 0 Daily Avg. Liquid Surface Temp. (deg R): 829 Daily Min. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 834 Daily Ambient Temp. Range (deg. R): 25 /ented Vapor Saturation Factor: 0 Vented Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Working Losses (lb): 150 Vapor Molecular Weight (lb/fib-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12	0.050	
Surface Temperature (psia): 0 Daily Avg. Liquid Surface Temp. (deg R): 829 Daily Min. Liquid Surface Temp. (deg R): 824 Daily Min. Liquid Surface Temp. (deg R): 824 Daily Max. Liquid Surface Temp. (deg R): 834 Daily Amblent Temp. Range (deg. R): 25 Vapor Saturation Factor: 0 Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Vapor Molecular Weight (lb/lb-mole): 150 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0 Vapor Pressure at D		Vacor Pressure at Dally Maximum Liquid
Daily Avg. Liquid Surface Temp. (deg R): 829	0.0638	
Daily Min. Liquid Surface Temp. (deg R): 824 Daily Ambient Temp. Range (deg. R): 834 Daily Ambient Temp. Range (deg. R): 25 /ented Vapor Saturation Factor: 0 Vented Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Vorking Losses (lb): 150 Vapor Molecular Weight (lb/fib-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	829.6700	
Daily Max. Liquid Surface Temp. (deg R): 834 Daily Amblent Temp. Range (deg. R): 25 Vented Vapor Saturation Factor 0 Vented Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psla): 0 Vapor Space Outage (ft): 2 Working Losses (lb): 150 Vapor Molecular Weight (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psla): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	824.6700	Daily Min. Liquid Surface Temp. (deg R):
Dally Amblent Temp. Range (deg. R): 25 /ented Vapor Saturation Factor 0 Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Working Losses (lb): 150 Vapor Molecular Weight (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 5 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	834.6700	Daily Max. Liquid Surface Temp. (deg R):
Vented Vepor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 3 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Vorking Losses (lb): 150 Vapor Molecular Welght (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 4,668,349 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	25.8250	
Vented Vapor Saturation Factor: 0 Vapor Pressure at Daily Average Liquid: 3 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Working Losses (lb): 150 Vapor Molecular Welght (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 4,568,349 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12		Vented Vapor Saturation Factor
Vapor Pressure at Daily Average Liquid: 0 Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Working Losses (lb): 150 Vapor Molecular Weight (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 5 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	0.9937	
Surface Temperature (psia): 0 Vapor Space Outage (ft): 2 Working Losses (lb): 150 Vapor Molecular Weight (lb/lb-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12		
Vapor Space Outage (ft): 2 Vorking Losses (lb): 150 Vapor Molecular Welght (lb/lb-mole): 105 Vapor Pressure at Dally Average Liquid 5 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,668,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	0.0564	
Vapor Molecular Weight (Ib/Ib-mole): 105 Vapor Pressure at Daily Average Liquid 3 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	2.1250	
Vapor Molacular Weight (Ib/Ib-mole): 105 Vapor Pressure at Daily Äverage Liquid 3 Surface Temperature (psia): 0 Annual Net Throughput (gal/yr.): 4,668,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	150,3974	Vorking Losses (lb):
Vapor Pressure at Dally Äverage Liquid 0 Surface Temperature (psia): 4,568,349 Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Meximum Liquid Height (ft): 12 Tank Diameter (ft): 12	105.0000	
Surface Temperature (psia): 4,668,349 Annual Net Throughput (gallyr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12		
Annual Net Throughput (gal/yr.): 4,568,349 Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	0.0564	
Annual Turnovers: 449 Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	4,568,349.5000	
Turnover Factor: 0 Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	449,9793	Annual Turnovers:
Maximum Liquid Volume (gal): 10,152 Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	0.2333	
Maximum Liquid Height (ft): 12 Tank Diameter (ft): 12	10,152,3556	
Tank Diameter (R): 12	12.0000	
	12.0000	
	1.000	
Fotal Losses (lb):	151.1590	olal Losses (lb):

Emissions Report for: Annual

2005 Tank 320-1 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)							
Components	Working Loss	Breathing Loss	Total Emissions					
Asphalt Cement	150.40	0.76						

TANKS 4.0.9d

Emissions Report - Detail Format Tank Indentification and Physical Characteristics

Identification

User Identification: City: State: Company: Type of Tank: 2005 Tank 35 Blackfoot Idaho Idaho Asphalt Vertical Fixed Roof Tank

Asphalt Cement Storage

Tank Dimensions

Description:

Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers:
Net Throughput(gal/yr):
Is Tank Heated (y/n):

40.00 100.00 40.00 36.00 2,350,082.29 0.97 2,276,938.00

Paint Characteristics

Shell Color/Shade: Shell Condition Roof Color/Shade:

Aluminum/Diffuse Good

Aluminum/Diffuse

Roof Condition:

Good

Υ

Roof Characteristics

Type: Helght (ft) Cone

Slope (ft/ft) (Cone Roof)

3.13 0.06

Breather Vent Settings

Vacuum Settings (psig): Pressure Settings (psig) 0.00

2005 Tank 35 - Vertical Fixed Roof Tank Blackfoot, Idaho

MATERIAL TO CONTROL METERS AND AN ARROYMENCY WILL SEA VIOLENCY AND A SEASON AND ARROYMENT ARROYM	a quantification (i.g. plane) (i.g. tag (i.g., 10)) fine	Da	ally Liquid S perature (d	urf.	Liquid Bulk Temp		or Pressure		Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
Especialistica en especialistica de la companiente del companiente de la companiente	n terminana araban a					**********************					~~~~	orespecial and company and adjust
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 35 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	43.0461
Vapor Space Volume (cu ft);	39,597.1574
Vapor Density (tb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9951
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	39,597.1574
Tank Diameter (ft):	100.0000
Vapor Space Outage (ft):	5.0417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft): Roof Outage (ft):	36.0000 1.0417
Roof Outage (Cone Roof) Roof Outage (ft):	1.0417
Roof Height (ft):	3.1250
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	50.0000
/apor Density	
Vapor Density (ib/cu ft):	0.0002
Vapor Molecular Weight (lb/tb-mole):	105.0000
Vapor Pressure at Dally Average Liquid	0.0400
Surface Temperature (psia);	0.0183 784.6700
Daily Avg. Liquid Surface Temp. (deg. R): Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.3342
(psla cuft / (ib-mot-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vepor Pressure Range (psia):	0.0049
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	0.0400
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	0.0100
Surface Temperature (psia):	0.0208
Dally Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789,6700
Daily Ambient Temp. Range (deg. R):	25.8250
/ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9951
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	5.0417
Vorking Losses (Ib):	104.0370
Vapor Molecular Weight (lb/lo-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	0.9689
Turnover Factor:	1.0000
Maximum Liquid Votume (gal);	2,350,082.2861
Maximum Liquid Height (ft):	40.0000
Tank Diameter (ft): Working Loss Product Factor:	100.0000 1.0000
-	
Fotal Losses (lb):	147.0831
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Emissions Report for: Annual

2005 Tank 35 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss	Breathing Loss	
Asphalt Cement	104.04	43.05	147.08

Identification

User Identification: 2005 Tank 35 - Combined

City: Blackfoot State: Idaho Company: Idaho Asphalt

Type of Tank: Vertical Fixed Roof Tank
Description: Vertical Fixed Roof Tank
Asphalt Cement Storage

Tank Dimensions

 Shell Height (ft):
 40.00

 Dlameter (ft):
 100.00

 Liquid Height (ft):
 40.00

 Avg. Liquid Height (ft):
 36.00

 Volume (gallons):
 2,350,082.29

 Turnovers:
 3.88

Net Throughput(gal/yr): 9,127,507.00

Is Tank Heated (y/n):

Paint Characteristics

Shell Color/Shade: Aluminum/Diffuse

Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

Roof Characteristics

Type: Cone

Height (ft) 3.13 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings

Vacuum Settings (psig): 0.00
Pressure Settings (psig) 0.00

2005 Tank 35 - Combined - Vertical Fixed Roof Tank Blackfoot, Idaho

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			ally Liquid S perature (de		Liquid Buik Temp	Vapo	or Pressure	(psla)	Vapor Mot.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Welght.	Fract.	Fract.	Weight
Phonomenous constraints for the temptors with a part of account of a determine surject of the entire security of									n for an experience of the second contract of	ed nes es es electros es sectores		Mariti an escent artista s
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

2005 Tank 35 - Combined - Vertical Fixed Roof Tank Blackfoot, Idaho

Standling Losses (lb): 43.048	Annual Emission Calcaulations	
Vapor Density (lb/cu ft):	Standing Losses (lb):	43.0461
Vappor Space Expansion Factor: 0.913		39,597.1574
Vented Vapor Space Volume (cu ft):		0.0002
Tank Vapor Space Volume (cu ft): Vapor Space Volume (cu ft): Vapor Space Volume (cu ft): Tank Diameter (ft): Vapor Space Outage (ft): Tank Shell Helght (ft): Average Liquid Height (ft): Roof Outage (ft): Outage (ft): Roof Outage (ft): Roof Outage (ft): Roof Helght (ft): Roof Helght (ft): Roof Helght (ft): Roof Helght (ft): Roof Stope (ft/ft): Shell Radius (ft): Appor Density Vapor Density Vapor Density (th/cu ft): Vapor Density (th/cu ft): Vapor Molecular Weight (th/ft)-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psla): Liquid Buik Temperature (deg. R): Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Insulation Factor (Blu/sqft day): Japor Space Expansion Factor Vapor Space Expansion Factor: Daily Vapor Temperature (psla): Daily Vapor Temperature Range (deg. R): Daily Vapor Temperature (psla): Vapor Pressure at Daily Muranu Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Average Liquid Surface Temperature (psla): Vapor Pressure at Daily Average Liquid Surface Temperature (psla): Vapor Pressure at Daily Average Liquid Surface Tem		
Vapor Space Volume (cu ft):	Vented Vapor Saturation Factor:	0.9951
Tank Diameter (fi): 5.0.41	Tank Vapor Space Volume:	
Vapor Space Outage (ft):		
Tank Shell Helght (ft): 36.000 Roof Outage (R): 1.041 Roof Outage (R): 1.041 Roof Outage (R): 1.041 Roof Outage (R): 1.041 Roof Height (R): 3.125 Roof Stope (R/R): 50.000 Roof Outage (R): 50.000 Roof Outage (R): 3.125 Roof Height (R): 50.000 Roof Outage (R): 50.000 Roof Outage (R): 50.000 Roof Outage (R): 50.000 Roof Density (Blocu R): 50.000 Roof Outage (R): 50.000 Roof Density (Blocu R): 784.670 Roof Roof Roof R): 60.000 Roof Pressure at Daily Average Liquid Surface Temperature (Age, R): 784.670 Roof Roof Roof Roof: 784.670 Roof Roof Roof Roof: 784.670 Roof Roof Roof Roof Roof: 784.670 Roof Roof Roof Roof Roof: 784.670 Roof Roof Roof Roof Roof Roof Roof Roof	Fank Ulameter (II);	
Average Liquid Height (ft): Roof Outage (ft): 1.041 Roof Outage (ft): Roof Outage (ft): Roof Height (ft): Roof Height (ft): Roof Stope (ft/ft): Shell Radius (ft): //apor Density Vapor Density Vapor Density (ib/lou ft): Vapor Molecular Weight (ib/lb-mole): Vapor Molecular Weight (ib/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psla): Daily Avg. Liquid Surface Temp. (deg. R): Ideal Gas Constant R (psia cuff / (ib-mol-deg R)): Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof): Daily Total Solar Insulation Factor (Blu/sqft day): //apor Space Expansion Factor Vapor Pressure at Daily Average Liquid Surface Temperature (psla): 0.013: Daily Vapor Temperature Range (deg. R): Daily Vapor Temperature (psla): Vapor Pressure at Daily Average Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla): 0.0200 Daily Max. Liquid Surface Temp. (deg R): Daily May. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R): 2.58.25ti (ented Vapor Saluration Factor: Vented Vapor Saluration Factor: Vented Vapor Saluration Factor: 9.95: Vapor Pressure at Daily Average Liquid Surface Temperature	Tank Shall Halaht (#):	
Roof Outage (R):		
Roof Outage (ft):		1.0417
Roof Outage (ft):	Roof Outage (Cone Roof)	
Roof Stope (It/II); 0.062		1.0417
Shell Radius (ft):	Roof Height (ft):	3.1250
Vapor Density Vapor Density Vapor Density Vapor Density Vapor Density Vapor Density Vapor Possure at Daily Average Liquid Surface Temperature (psla); 0.018: 784.670 Daily Average Ambient Temp. (deg. R); 784.670 Daily Average Ambient Temp. (deg. F); Ideal Gas Constant R (psia cuft / (ib-mol-deg R)); 784.670 Vapor Pressure at Daily Average (Shell); 784.670 Vapor Tank Paint Solar Absorptance (Shell); 0.600 Tank Paint Solar Absorptance (Roof); 0.600 Daily Total Solar Insulation Tank Paint Solar Absorptance (Roof); 0.600 Daily Total Solar Insulation Tank Paint Solar Absorptance (Roof); 0.600 Daily Total Solar Insulation Tank Paint Solar Absorptance (Roof); 0.013: Daily Vapor Temperature Range (deg. R); 10.000 Daily Vapor Temperature Range (deg. R); 10.000 Daily Vapor Pressure Range (psla); 0.004 Daily Vapor Pressure at Daily Average Liquid Surface Temperature (psla); 0.016: Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla); 0.016: Vapor Pressure at Daily Maximum Liquid Surface Temperature (psla); 0.020 Daily Max. Liquid Surface Temp. (deg R); 784.670 Daily Max. Liquid Surface Temp. (deg R); 789.670 Daily Max. Liquid Surfac		0.0625
Vepor Density (blofu ft): 0.000: Vapor Molecular Weight (bloflb-mole): 105.000: Vapor Pressure at Daily Average Liquid 5.000: Surface Temperature (psla): 0.018: Daily Aver, Liquid Surface Temp. (deg. R): 784.670 Delly Average Ambient Temp. (deg. F): 46.354: Ideal Gas Constant R (psla cuf. ft). (psla cuf. ft). 784.670 Tank Paint Solar Absorptance (Shell): 0.600 Tank Paint Solar Absorptance (Roof): 0.800 Daily Total Solar Insulation 1,371.003 Factor (Blu/sqft day): 1,371.003 Vapor Space Expansion Factor 0.013: Vapor Space Expansion Factor: 0.013: Vapor Space Expansion Factor: 0.013: Daily Vepor Temperature Range (deg. R): 10.000 Daily Vepor Temperature Range (deg. R): 0.004: Surface Temperature (psla): 0.016: Vapor Pressure at Daily Average Liquid 0.016: Surface Temperature (psla): 0.016: Vapor Pressure at Daily Maximum Liquid 0.020: Daily May. Liquid Surface Temp. (deg R): 789.670<	Shell Radius (ft):	50.0000
Vapor Moleculiar Weight (In/Ib-mole): 105.000	apor Density	
Vapor Pressure at Daily Average Liquid Surface Temperature (psla): 0.018:		
Surface Temperature (psial):		100.000
Delly Avg. Liquid Surface Temp. (deg. R); Delly Average Ambient Temp. (deg. F); Ideal Gas Constant R (psia cut / (lb-mol-deg R)); Liquid Bulk Temperature (deg. R); Tank Paint Solar Absorptance (Shell); Dally Total Solar Absorptance (Roof); Dally Total Solar Insulation Factor (Btu/sqft day); Jayor Space Expansion Factor Vapor Space Expansion Factor: Dally Vapor Temperature Range (deg. R); Dally Vapor Temperature Range (deg. R); Dally Vapor Temperature (psia); Vapor Pressure at Dally Average Liquid Surface Temperature (psia); Vapor Pressure at Dally Maximum Liquid Surface Temperature (psia); Dally Avg. Liquid Surface Temp. (deg R); Dally Myn. Liquid Surface Temp. (deg R); Dally Myn. Liquid Surface Temp. (deg R); Dally Mm. Liquid Surface Temp. (deg R); Dally Mm. Liquid Surface Temp. (deg R); Dally Ambient Temp. Range (deg. R); Dally Ambient Temp. Range (deg. R); O.995: Vapor Pressure at Dally Average Liquid: Surface Temperature (psia); O.020 Dally Avg. Liquid Surface Temp. (deg R); Dally Mn. Liquid Surface Temp. (deg R); Dally Ambient Temp. Range (deg. R); O.995: Vapor Pressure at Dally Average Liquid: Surface Temperature (psia); O.016: Vapor Pressure at Dally Average Liquid: Surface Temperature (psia); O.016: Vapor Pressure at Dally Average Liquid: Surface Temperature (psia); O.016: Vapor Pressure at Dally Average Liquid: Surface Temperature (psia); O.016: Vapor Pressure at Dally Average Liquid: Surface Temperature (psia); O.016: Vapor Pressure at Dally Average Liquid Surface Temperature (psia); O.016: Vapor Molecular Weight (lib/lb-mole); Vapor Molecular Weight (li		0.0103
Dally Average Amblent Temp. (deg. F): tdeal Gas Constant R (psia cut I / (lb-mol-deg R)): Liquid Bulk Temperature (deg. R): Tank Paint Solar Absorptance (Roof): Dally Total Solar Insulation Factor (Btu/sqft day): // Apor Space Expansion Factor Vapor Space Expansion Factor: Dally Vapor Temperature Range (deg. R): Dally Vapor Temperature Range (psia): Dally Vapor Temperature Range (psia): Dally Vapor Pressure at Dally Average Liquid Surface Temperature (psia): Vapor Pressure at Dally Minimum Liquid Surface Temperature (psia): Dally Avg. Liquid Surface Temp. (deg R): Dally May. Liquid Surface Temp. (deg R): Dally Max. Liquid Surface Temp. (deg R): Dally Max. Liquid Surface Temp. (deg R): Dally Max. Liquid Surface Temp. (deg R): Dally Max Liquid Surface Temp. (deg R): Dally Max Liquid Surface Temp. (deg R): Dally Max Liquid Surface Temp. (deg R): Dally Abbent Temp. Range (deg. R): (*Porting Losses (lb): Vapor Pressure at Dally Average Liquid Surface Temperature (psia): Vapor Pressure at Dally Average Liquid Surface Temperature (psia): Vapor Pressure at Dally Average Liquid Surface Temperature (psia): Vapor Pressure at Dally Average Liquid Surface Temperature (psia): Vapor Pressure at Dally Average Liquid Surface Temperature (psia): Vapor Pressure at Dally Average Liquid Surface Temperature (psia): Annual Net Throughput (gallyr.): Annual Net Throughput (gallyr.): Annual Turnover Ractor: Maximum Liquid Height (ff): Tank Dlameter (ff): 100.000 Working Loss Product Factor: 100.000 Working Loss Product Factor: 100.000 100.000		
Ideal Gas Constant R (psia cuft / (ib-mol-deg R)): 10.73		
(psia cut / (lb-mol-deg R)): 10.73 Liquid Bulk Temperature (deg. R): 784.670 Tank Paint Solar Absorptance (Shell): 0.6001 Tank Paint Solar Absorptance (Roof): 0.6001 Daily Total Solar Industrial In		10.0012
Liquid Bulk Temperature (deg. R): 784.670 Tank Paint Solar Absorptance (Shell): 0.6000 Tank Paint Solar Absorptance (Roof): 0.6000 Tank Paint Solar Insulation Factor (Btul/sqft day): 1,371.0030 Factor (Btu/sqft day): 1,371.0030 Factor		10.731
Tank Paint Solar Absorptance (Roof): 0.600 Daily Total Solar Insulation Factor (Biu/sqft day): 1,371.0030 fapor Space Expansion Factor Vapor Space Expansion Factor: 0.013 Daily Vapor Temperature Range (deg. R): 10.0000 Daily Vapor Pressure Range (psia): 0.0041 Daily Vapor Pressure Range (psia): 0.0041 Surface Temperature (psia): 0.0061 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0161 Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): 0.0201 Daily Avg. Liquid Surface Temp. (deg R): 79.6700 Daily Min. Liquid Surface Temp. (deg R): 79.6700 Daily Min. Liquid Surface Temp. (deg R): 79.6700 Daily Ambient Temp. Range (deg. R): 25.8250 fented Vapor Saturation Factor Vented Vapor Saturation Factor Vented Vapor Saturation Factor Vented Vapor Saturation Factor: 0.995 Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): 0.0162 Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): 0.0163 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0163 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0163 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0163 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0163 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0000 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0000 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0000 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0000 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0000 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.0000 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.00000 Vapor Pressure at Daily Average Liquid Surface Temperature (psia): 0.00000000000000000000000000000000000		784.6700
Daily Total Sotar Insulation Factor (Blu/sq R day): (**apor Space Expansion Factor** Vapor Space Expansion Factor* Vapor Space Expansion Factor* Daily Vapor Temperature Range (deg. R): Daily Vapor Temperature Range (geg. R): Daily Vapor Pressure Range (psia): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Max. Liquid Surface Temp. (deg R): Daily Max Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R): **Cented Vapor Saturation Factor** **Cented Vapor Saturation Factor** **Vapor Pressure at Daily Average Liquid: Surface Temperature (psia): **Vapor Rose (ib): **Vorking Losses (ib): **Vorking Losses (ib): **Vorking Losses (ib): **Vapor Molecular Weight (ib/lb-mole): Vapor Pressure at Daily Average Liquid Surface Temperature (psia): **Annual Net Throughput (gal/yr.): Annual Turnover Factor: Annual Net Throughput (gal/yr.): Annual Net	Tank Paint Solar Absorptance (Shell):	0.6000
Factor (Blu/sqft day): (apor Space Expansion Factor Vapor Space Expansion Factor: Vapor Space Expansion Factor: O.013 Dally Vapor Temperature Range (deg. R): Dally Vapor Pressure Range (psla): O.000 Vapor Pressure at Dally Average L(quid Surface Temperature (psla): Vapor Pressure at Dally Minimum Liquid Surface Temperature (psla): Vapor Pressure at Dally Maximum Liquid Surface Temperature (psla): Vapor Pressure at Dally Maximum Liquid Surface Temperature (psla): Vapor Pressure at Dally Maximum Liquid Surface Temperature (psla): O.020 Dally Avg. L(quid Surface Temp. (deg R): Dally Mn. Liquid Surface Temp. (deg R): Dally Mn. Liquid Surface Temp. (deg R): Dally Max. Liquid Surface Temp. (deg R): Dally Ambient Temp. Range (deg. R): Vented Vapor Saturation Factor Vented Vapor Saturation Factor Vented Vapor Saturation Factor Vented Vapor Saturation Factor: Vapor Pressure at Dally Average L(quid: Surface Temperature (psla): Vapor Molecular Weight (lib/lb-mole): Vapor Molecular Weight (lib/lb-mole): Vapor Pressure at Dally Average L(quid Surface Temperature (psla): Annual Net Throughput (gallyr.): Annual Net Infroughput (g	Tank Paint Solar Absorptance (Roof):	0.6000
/apor Space Expansion Factor 0.013 Vapor Space Expansion Factor: 0.013 Dally Vapor Temperature Range (dag. R): 10.000 Dally Vapor Pressure Range (psla): 0.004 Breather Vent Press. Setting Range(psia): 0.000 Vapor Pressure at Daily Average Liquid 0.018: Surface Temperature (psia): 0.016: Vapor Pressure at Daily Minimum Liquid 0.016: Surface Temperature (psia): 0.016: Vapor Pressure at Daily Maximum Liquid 0.020: Surface Temperature (psia): 0.020: Daily Avg. Liquid Surface Temp. (deg R): 784.6700 Daily Max. Liquid Surface Temp. (deg R): 789.6700 Daily Max. Liquid Surface Temp. (deg R): 789.6700 Daily Ambient Temp. Range (deg. R): 25.8250 Vented Vapor Saturation Factor 0.995: Vented Vapor Saturation Factor 0.995: Vapor Pressure at Daily Average Liquid 0.018: Surface Temperature (psia): 0.018: Vapor Molecular Weight (lb/lb-mole): 0.018: Vapor Pressure at Daily Average Liquid 0.018: Surface Temperature		4 074 000
Vapor Space Expansion Factor: 0.013 Daily Vapor Temperature Range (deg. R): 10.0000 Daily Vapor Pressure Range (psia): 0.0041 Vapor Pressure Range (psia): 0.0001 Vapor Pressure at Daily Waverage Liquid 0.0162 Vapor Pressure at Daily Minimum Liquid 0.0163 Vapor Pressure at Daily Maximum Liquid 0.0201 Vapor Pressure at Daily Maximum Liquid 0.0201 Surface Temperature (psia): 0.0201 Daily Avg. Liquid Surface Temp. (deg R): 784.670 Daily Min. Liquid Surface Temp. (deg R): 779.6700 Daily Max. Liquid Surface Temp. (deg R): 789.6700 Daily Ambient Temp. Range (deg. R): 25.8250 Vented Vapor Saturation Factor 0.9957 Vapor Pressure at Daily Average Liquid: 0.9957 Surface Temperature (psia): 0.0163 Vapor Space Outage (ft): 417.0506 Vapor Pressure at Daily Average Liquid 0.0163 Surface Temperature (psia): 9.127.507.000 Vapor Pressure at Daily Average Liquid 0.0163 Surface Temperature (psia): 9.127.507.000 Annua	Factor (Blu/sqit day):	1,371.0030
Dally Vapor Temperature Range (deg. R): 10.000t Dally Vapor Pressure Range (psla): 0.004t Breather Vent Press. Setting Range(psla): 0.004t Vapor Pressure at Daily Average Liquid 0.018t Surface Temperature (psla): 0.018t Vapor Pressure at Daily Minimum Liquid 0.016t Surface Temperature (psla): 0.020t Vapor Pressure at Daily Maximum Liquid 0.020t Surface Temperature (psla): 0.020t Daily Avg. Liquid Surface Temp. (deg R): 784.670t Daily Max. Liquid Surface Temp. (deg R): 789.670t Daily Max. Liquid Surface Temp. (deg R): 789.670t Daily Max. Liquid Surface Temp. (deg R): 25.826t Vented Vapor Saluration Factor Vented Vapor Saluration Factor Vented Vapor Saluration Factor 0.995* Vapor Pressure at Daily Average Liquid: 0.018* Surface Temperature (psla): 417.050t Vapor Molecular Weight (lb/lb-mole): 0.018* Vapor Pressure at Daily Average Liquid 0.018* Surface Temperature (psla): 0.018* Annual Not Throughput (gallyr.): 9,127,507,000*	/apor Space Expansion Factor	0.0404
Dally Vapor Pressure Range (psla); 0.0048		
Breather Vent Press. Setting Range(psia); 0.0000 Vapor Pressure at Daily Average Liquid 0.0163 Surface Temperature (psia); 0.0163 Vapor Pressure at Daily Minimum Liquid 0.0166 Surface Temperature (psia); 0.0160 Vapor Pressure at Daily Maximum Liquid 0.0200 Surface Temperature (psia); 0.0201 Daily Arg. Liquid Surface Temp. (deg R); 784.6700 Daily Min. Liquid Surface Temp. (deg R); 789.6700 Daily Max. Liquid Surface Temp. (deg R); 789.6700 Daily Ambient Temp. Range (deg. R); 25.8250 Vented Vapor Saluration Factor: 0.9957 Vapor Pressure at Daily Average Liquid: 0.0183 Surface Temperature (psia); 0.0183 Vapor Space Outage (ft); 5.0417 Vapor Molecular Weight (lb/lb-mole); 105.0000 Vapor Pressure at Daily Average Liquid 0.0183 Surface Temperature (psia); 0.0183 Vapor Pressure at Daily Average Liquid 0.0183 Surface Temperature (psia); 0.0183 Annual Net Throughput (gallyr.); 9,127,507,0000 Annual Turnover	Daily Vapor Pressure Range (cog. K).	
Vepor Pressure at Daily Average Liquid 0.018: Surface Temperature (psia): 0.016: Vapor Pressure at Daily Minimum Liquid 0.016: Surface Temperature (psia): 0.020: Vapor Pressure at Daily Maximum Liquid 784-670: Surface Temperature (psia): 0.020: Daily Avg. Liquid Surface Temp. (deg R): 784-670: Daily Max. Liquid Surface Temp. (deg R): 789-670: Daily Max. Liquid Surface Temp. (deg R): 25.8250 Cented Vapor Saturation Factor Vented Vapor Saturation Factor Vented Vapor Saturation Factor: 0.995: Vapor Pressure at Daily Average Liquid: 0.018: Surface Temperature (psia): 0.018: Vapor Space Outage (ft): 417.0500 Vapor Pressure at Daily Average Liquid 0.018: Surface Temperature (psia): 0.018: Vapor Pressure at Daily Average Liquid 0.018: Surface Temperature (psia): 0.018: Annual Net Throughput (gal/yr.): 9,127,507,000 Annual Net Throughput (gal/yr.): 9,127,507,000 Annual Net Throughput (gal/yr.): 9,127,507,000	Breather Vent Press, Setting Range(osia):	
Surface Temperature (psia):		5,5111
Surface Temperature (psia):	Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Maximum Liquid 0.0201 Surface Temperature (psia): 784.6700 Daily Avg. Liquid Surface Temp. (deg R): 789.6700 Daily Min. Liquid Surface Temp. (deg R): 789.6700 Daily Max. Liquid Surface Temp. (deg R): 789.6700 Daily Ambient Temp. Renge (deg. R): 25.8250 (ented Vapor Saturation Factor: 0.995: Vented Vapor Saturation Factor: 0.995: Vapor Pressure at Daily Average Liquid: 0.016: Surface Temperature (psia): 0.018: Vapor Space Outage (ft): 417.0506 Vapor Motecular Weight (lb/lb-mole): 105.0000 Vapor Pressure at Daily Average Liquid 5.0412 Surface Temperature (psia): 0.016: Annual Net Throughput (gellyr.): 9,127,507.0000 Annual Turnovers: 3.883 Turnover Factor: 1.0000 Maximum Liquid Volume (gal): 2,350,082,2861 Maximum Liquid Height (ft): 40.0000 Tank Dlameter (ft): 10.0000	Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia): 0.0201 Dally Avg. Liquid Surface Temp. (deg R): 784.6700 Dally Min. Liquid Surface Temp. (deg R): 779.6701 Dally Min. Liquid Surface Temp. (deg R): 789.6701 Dally Max. Liquid Surface Temp. (deg R): 789.6701 Dally Max. Liquid Surface Temp. (deg R): 789.6701 Dally Ambient Temp. Range (deg. R): 25.8261 Vented Vapor Saturation Factor: 0.995: 780.6701 Vented Vapor Saturation Factor: 0.995: 780.6702 Vapor Pressure at Daily Average Liquid: 780.6702 Surface Temperature (psia): 780.6702 Vapor Molecular Weight (ib/lb-mole): 105.0001 Vapor Pressure at Daily Average Liquid 780.6702 Vapor Pressure at Daily Average Liquid 780.6702 Vapor Molecular Weight (ib/lb-mole): 9.127.507.0001 Vannual Net Throughput (gal/yr.): 9.127.507.0001 Annual Turmovers: 3.8833 Turnover Factor: 1.0001 Maximum Liquid Volume (gal): 2.350.082.2861 Maximum Liquid Height (ff): 100.0001 Working Loss Product Factor: 1.0001		0.0160
Dally Avg. Liquid Surface Temp. (deg R): 784.670t Dally Min. Liquid Surface Temp. (deg R): 779.670t Daily Max. Liquid Surface Temp. (deg R): 789.670t Daily Ambient Temp. Range (deg. R): 25.825t Vented Vapor Saturation Factor 0.995: Vented Vapor Saturation Factor: 0.995: Vapor Pressure at Daily Average Liquid: 0.016: Surface Temperature (psia): 0.016: Vapor Space Outage (ft): 417.050t Vapor Molecular Weight (ib/lb-mole): 105.000t Vapor Molecular Weight (ib/lb-mole): 0.018: Annual Net Throughput (gallyr.): 9,127,507.000t Annual Net Throughput (gallyr.): 9,127,507.000t Annual Turnovers: 3,883 Turnover Factor: 1,000t Maximum Liquid Volume (gal): 2,350,082.286t Maximum Liquid Height (ft): 40.000t Tank Dlameler (ft): 100.000t Working Loss Product Factor: 1,000t		
Dally Min. Liquid Surface Temp. (deg R): 779.670t Dally Max. Liquid Surface Temp. (deg R): 789.670t Dally Ambient Temp. Renge (deg. R): 25.826t (ented Vapor Saturation Factor: 0.995: Vapor Pressure at Daily Average Liquid: 0.018: Surface Temperature (psia): 0.018: Vapor Space Outage (ft): 5.041: Varing Losses (lb): 417.050t Vapor Molecular Weight (lb/lb-mole): 105.000 Vapor Pressure at Daily Average Liquid 0.18: Surface Temperature (psia): 0.018: Annual Net Throughput (gellyr.): 9,127,507,000 Annual Turnovers: 3.883 Turnover Factor: 1.0000 Maximum Liquid Volume (gal): 2,350,082,286 Maximum Liquid Height (ft): 40,0000 Tank Dlameter (ft): 100,0000 Working Loss Product Factor: 1,0000		
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Vented Vapor Saturalion Factor: 0.995* Vapor Pressure at Daily Average Liquid: 0.018* Surface Temperature (psta): 0.018* Vapor Space Outage (ft): 5.041* Vorking Losses (lb): 417.050* Vapor Molecular Weight (lb/lb-mole): 105.000* Vapor Pressure at Daily Average Liquid 0.018* Surface Temperature (psta): 9,127,507.000* Annual Net Throughput (gel/yr.): 9,127,507.000* Annual Tumovers: 3,883* Tumover Factor: 1,000* Maximum Liquid Volume (gal): 2,350,082.286* Maximum Liquid Height (ft): 40,000* Tank Dlameter (ft): 100.000* Working Loss Product Factor: 1,000*		25.8250
Vented Vapor Saluration Factor: 0.995* Vapor Pressure at Daily Average Liquid: 0.018* Surface Temperature (psta): 0.018* Vapor Space Outage (ft): 5.041* Vorking Losses (lb): 417.0506* Vapor Molecular Weight (lb/lb-mole): 105.0000 Vapor Pressure at Daily Average Liquid 0.018* Surface Temperature (psta): 9,127,507.000 Annual Net Throughput (gel/yr.): 9,127,507.000 Annual Turnovers: 3,883* Turnover Factor: 1,0000 Maximum Liquid Volume (gal): 2,350,082.286* Maximum Liquid Height (ft): 40,0000 Tank Diameter (ft): 100.000 Working Loss Product Factor: 1,0000	ented Vanor Saturation Factor	
Vapor Pressure at Daily Average Liquid: 0.018: Surface Temperature (psla): 0.018: Vapor Space Outage (ft): 5.041: Vorking Losses (lb): 417.050: Vapor Molecular Weight (lb/lb-mole): 105.000: Vapor Pressure at Daily Average Liquid 0.018: Surface Temperature (psla): 9,127,507.000: Annual Net Throughput (gel/yr.): 9,127,507.000: Annual Tumovers: 3.883: Tumover Factor: 1.0000: Maximum Liquid Volume (gal): 2,350,082.286: Maximum Liquid Height (ft): 40.0000: Tank Dlameler (ft): 100.0000: Working Loss Product Factor: 1.0000:		0.9951
Surface Temperature (psis): 0.016: Vapor Space Outage (ft): 5.0417 Vapor Space Outage (ft): 5.0417 Vapor Molecular Weight (ib/lb-mole): 105.0000 Vapor Molecular Weight (ib/lb-mole): 105.0000 Vapor Pressure at Daily Average Líquid Surface Temperature (psis): 0.018: Annual Net Throughput (gal/yr.): 9,127,507.0000 Annual Turnovers: 3,883 Turnover Factor: 1,0000 Maximum Liquid Volume (gal): 2,350,082.2861 Maximum Liquid Height (ft): 40.0000 Vapor Maximum Liquid Height (ft): 100.0000 Vapor Maxi		0.000
Vapor Space Outage (ft): 5.0417 Vorking Losses (lb): 417.0508 Vapor Molecular Weight (lb/lb-mole): 105.0000 Vapor Pressure at Daily Average Líquid 0.0183 Surface Temperature (psla): 9,127,507,0000 Annual Net Throughput (gel/yr.): 9,127,507,0000 Annual Turnovers: 3,8835 Turnover Factor: 1,0000 Maximum Liquid Volume (gal): 2,350,082,2861 Maximum Liquid Height (ft): 40,0000 Tank Dlameter (ft): 100,000 Working Loss Product Factor: 1,0000	Surface Temperature (psia):	0.0183
Vapor Molecular Weight (Ib/Ib-mole): 105.0000 Vapor Pressure at Daily Average L(quid Surface Temperature (psla): 0.0183 Annual Net Throughput (gel/yr.): 9,127,507,0000 Annual Turnovers: 3,8833 Turnover Factor: 1,0000 Maximum Liquid Volume (gal): 2,350,082,2861 Maximum Liquid Height (ft): 40,0000 Tank Diameter (ft): 100,0000 Working Loss Product Factor: 1,0000		5.0417
Vapor Pressure at Deliy Äverage L(quid Surface Temperature (psla): 0.018: Annual Net Throughput (gallyr.): 9,127,507,000 Annual Net Throughput (gallyr.): 9,127,507,000 Annual Turmovers: 1,000 Turmover Factor: 2,350,082,286! Maximum Liquid Volume (gal): 40,000 Maximum Liquid Helght (ft): 100,000 Tank Dlameler (ft): 1,000 Working Loss Product Factor: 1,000		417.0508
Surface Temperature (psla):		105.0000
Annual Net Throughput (gell/yr.): 9,127,507,000(Annual Turnovers: 3,883(Turnover Factor: 1,000(Maximum Liquid Volume (gal): 4,350,082,286(Maximum Liquid Height (ft): 40,000(Tank Diameter (ft): 100,000(Working Loss Product Factor: 1,000(
Annual Turnovers: 3.883 Turnover Factor: 1.0006 Maximum Liquid Volume (gal): 2,350,082.2861 Maximum Liquid Height (ft): 40.0006 Tank Dlameter (ft): 100.0006 Working Loss Product Factor: 1.0006		0.0183
Turnover Factor: 1.0000 Maximum Liquid Volume (gal): 2,350,082.2861 Maximum Liquid Height (ft): 40.0000 Tank Dlameter (ft): 100.0000 Working Loss Product Factor: 1.0000	Annual Net Inroughput (gal/yr.):	
Maximum Liquid Volume (gal): 2,350,082,2861 Maximum Liquid Height (ft): 40,0000 Tank Diameter (ft): 100,0000 Working Loss Product Factor: 1,0000		
Maximum Liquid Height (ft): 40.0000 Tank Dlameter (ft): 100.0000 Working Loss Product Factor: 1,0000		
Tank Diameter (ft): 100.0000 Working Loss Product Factor: 1,0000	Maximum Liquid Volume (gar);	
Working Loss Product Factor: 1,0000		
otal Losses (lb): 460,0969	Working Loss Product Factor:	1.0000
otal Losses (lb): 460,0969		
	otal Losses (ib):	460.0969

Emissions Report for: Annual

2005 Tank 35 - Combined - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	417,05	43.05	460.10

Identification

User Identification: City: State:

Company:

Type of Tank: Description:

2005 Tank 36 Blackfoot

Idaho Idaho Asphalt

Vertical Fixed Roof Tank Asphalt Cement Storage

Tank Dimensions

Shell Height (ft):
Dlameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers:

Net Throughput(gal/yr): Is Tank Heated (y/n):

50.00 75.00 50.00

45.00 1,652,401.61 1.38 2,276,938.00

Paint Characteristics

Shell Color/Shade:

Aluminum/Diffuse Good

Υ

Shell Condition

Roof Color/Shade:

Aluminum/Diffuse Good

Roof Condition:

Roof Characteristics

Type: Height (ft)

Cone

Slope (ft/ft) (Cone Roof)

2,34 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

0.00 0.00

2005 Tank 36 - Vertical Fixed Roof Tank Blackfoot, Idaho

			~~~~~	v	ette m. n. o. ottore og nemen.					er and expenses against	CONTRACTOR AND	
			illy Liquid Si perature (de		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
and the trades to the 1 thin, " and is more that the trade of the contract of					NAMES AND ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA			ani kaharan a danara kana		ran random in a language and a same	, desar distribute describer of the Constraint, some or s	***************************************
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0,0208	105.0000			1,000.00

### 2005 Tank 36 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	27.7457
Vapor Space Volume (cu ft):	25,540.8537
Vapor Density (tb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9944
Tank Vapor Space Volume;	
Vapor Space Volume (cu ft):	25,540.8537
Tank Diameter (ft):	75.0000
Vapor Space Outage (ft):	5.7813
Tank Shell Height (ff):	50.0000
Average Liquid Height (ft): Roof Outage (ft):	45.0000 0.7813
Roof Outage (Cone Roof) Roof Outage (fi):	0.7813
Roof Height (ft):	2.3438
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	37.5000
Vapor Density	
Vapor Density (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Dally Average Liquid	
Surface Temperature (psia):	0.0183
Dally Avg. Liquid Surface Temp. (deg. R): Dally Average Ambient Temp. (deg. F):	784.6700
Ideal Gas Constant R	46.3542
(psia cuft / (lb-mol-dag R));	10.731
Liquid Buik Temperature (deg. R):	784.6700
Tank Paint Sofar Absorptance (Sheff):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R);	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press, Setting Range(psla): Vapor Pressure at Deily Average Liquid	0.0000
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	0.0100
Surface Temperature (psia):	0.0160
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0208
Dally Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R): Daily Ambient Temp. Range (deg. R):	789.6700 25.8250
	20.0200
Vented Vapor Saturation Factor  Vented Vapor Saturation Factor;	0.9944
Vapor Pressure at Daily Average Liquid:	0.0044
Surface Temperature (psia):	0.0183
Vepor Space Outage (ft):	5.7813
Working Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Tumovers:	1,3780
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	1,652,401.6074
Maximum Liquid Height (ft):	50.0000
Tank Diameter (ft): Working Loss Product Factor:	75.0000 1.0000
•	
Folal Losses (lb):	131.7827
• •	

### **Emissions Report for: Annual**

2005 Tank 36 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss							
Asphalt Cement	104.04	27.75	131.78						

Identification

User Identification: City: State: Company: Type of Tank:

Blackfoot ldaho Idaho Asphalt Vertical Fixed Roof Tank

2005 Tank 37

Description: Asphalt Cement Storage

Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers: Net Throughput(gal/yr):

50.00 45.00 1,652,401.61 1.38 2,276,938.00

50.00

75.00

Is Tank Heated (y/n):

**Paint Characteristics** 

Shell Color/Shade: Shell Condition

Aluminum/Diffuse Good

Aluminum/Diffuse

Roof Color/Shade:

Roof Condition: Good

**Roof Characteristics** 

Cone

Type: Height (ft) 2.34 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

# 2005 Tank 37 - Vertical Fixed Roof Tank Blackfoot, Idaho

Líquid Dally Liquid Surf. Bulk Vapor Liquid Vapor										erikushi sasasanne horashi esi		
			peralure (de		Temp	Vapo	r Pressure	(psia)	Mol.	Mass	Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Welght.	Fract.	Fract.	Weight
Asphall Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000			1,000.00

# 2005 Tank 37 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	- Andrew Street
Standing Losses (lb):	27.7457
Vapor Space Volume (cu ft):	25,540.8537
Vapor Density (tb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9944
Tank Vapor Space Volume: Vapor Space Volume (cu ft):	05 510 0507
Tank Diameter (ft):	25,540.8537 75.0000
Vapor Space Outage (ft):	5.7813
Талк Shell Height (ft);	50.0000
Average Liquid Height (ft):	45.0000
Roof Outage (ft):	0.7813
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.7813
Roof Height (ft):	2,3438
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	37.5000
Vapor Density	
Vapor Densily (tb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	0.0400
Surface Temperature (psia): Dally Avg. Liquid Surface Temp. (deg. R):	0.0183 784.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.0042
(psla cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	784.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Daily Vapor Temperature Range (deg. R); Daily Vapor Pressure Range (psia);	10.0000
Breather Vent Press. Setting Range(psia):	0.0049 0.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0183
Vapor Pressure at Daily Minimum Liquid	010100
Surface Temperature (psia):	0.0160
Vapor Pressure at Dally Maximum Liquid	
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface (emp. (deg R); Daily Max. Liquid Surface Temp. (deg R);	779.6700
Daily Ambient Temp, Range (deg. R):	789.6700 25.8250
	20.0200
Vented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.0044
Vapor Pressure at Daily Average Liquid:	0.9944
Surface Temperature (psia):	0.0183
Vapor Space Outage (ft):	5.7813
Working Losses (lb):	104.0370
Vapor Molecular Weight (tb/ib-mole);	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers:	1.3780
Turnover Factor:	1.0000
Maximum Liquid Volume (gal):	1,652,401.6074
Maximum Liquid Height (ft);	50.0000
Tank Diameter (ft): Working Loss Product Factor:	75.0000 1,0000
Total Losses (lb);	131.7827

### **Emissions Report for: Annual**

2005 Tank 37 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(ibs)						
Components		Breathing Loss					
Asphalt Cement	104.04	1 27.701	131.78				

Identification

User Identification: City:

State: Company: Type of Tank: Description: Blackfoot Idaho Idaho Asphalt

2005 Tank 38

Vertical Fixed Roof Tank Asphalt Cement Storage

**Tank Dimensions** 

Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers: Net Throughput(gal/yr):

Is Tank Heated (y/n):

**Paint Characteristics** 

Shell Color/Shade: Shell Condition

Good Aluminum/Diffuse Roof Color/Shade: Good

Roof Condition:

**Roof Characteristics** 

Slope (ft/ft) (Cone Roof)

Cone

Aluminum/Diffuse

3.13 0.06

40.00

100.00

40.00 36.00 2,350,082.29

0.97

2,276,938.00

**Breather Vent Settings** 

Vacuum Settings (psig): Pressure Settings (psig) 0.00 0.00

# 2005 Tank 38 - Vertical Fixed Roof Tank Blackfoot, Idaho

Settle: Print of the Section Section Section Settle Settle Settle Settle Settle Settle Settle Settle Settle Se	V22 ( N page 140,000 games)	Da	illy Liquid S perature (d	urf.	Liquid Bulk Temp		or Pressure		Vapor Mol.	Liquid Mass	Vapor Mass	Mol
Mixture/Component	Month	Avg.	Mln.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Welght
Asphalt Cement	All	325.00	320.00	330.00	325.00	0.0183	0.0160	0.0208	105.0000	confirmation reduced adoptic near discuss	Armstrav overage retracted and a se	1,000.00

## 2005 Tank 38 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Stending Losses (tb):	43.0461
Vapor Space Volume (cu ft):	39,597.1574
Vapor Density (ib/cu ft);	0.0002
Vapor Space Expansion Factor:	0.0131
Vented Vapor Saturation Factor:	0.9951
Tank Vepor Space Volume:	
Vapor Space Volume (cu ft):	39,597.1574
Tank Diameter (ft):	100.0000
Vapor Space Outage (ft):	5.0417
Tank Shell Height (ft):	40.0000
Average Liquid Height (ft); Roof Outage (ft);	36.0000 1.0417
- • •	,,,,,,
Roof Outage (Cone Roof) Roof Outage (fl):	4.044
Roof Height (fi):	1.0411
Roof Stope (ft/ft):	3.1250 0.0625
Shell Radius (ft):	50.0000
Vapor Density	
Vapor Densily (lb/cu ft):	0.0002
Vapor Molecular Weight (lb/lb-mote):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Daily Avg. Liquid Surface Temp. (deg. R): Daily Average Ambient Temp. (deg. F):	784.6700
Ideal Gas Constant R	46.3542
(psla cuft / (lb-mol-deg R)):	10.73
Liquid Bulk Temperature (deg. R):	784.670
Tank Paint Solar Absorptance (Shell):	0.6001
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0131
Dally Vapor Temperature Renge (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0049
Breather Vent Press, Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	0.040
Surface Temperature (psia): Vapor Pressure at Daily Minimum Liquid	0.0183
Surface Temperature (psia):	0.0160
Vapor Pressure at Dally Maximum Liquid	0.0100
Surface Temperature (psia):	0.0208
Daily Avg. Liquid Surface Temp. (deg R):	784.6700
Daily Min. Liquid Surface Temp. (deg R):	779.6700
Daily Max. Liquid Surface Temp. (deg R):	789.6700
Daily Ambient Temp, Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9951
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psla):	0.0183
Vapor Space Outage (ft):	5.0417
Vorking Losses (lb):	104.0370
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0183
Annual Net Throughput (gal/yr.):	2,276,938.0000
Annual Turnovers: Turnover Factor:	0.9689
Maximum Liquid Volume (gal):	1.0000 2,350,082.2861
Maximum Liquid Volume (gar). Maximum Liquid Helght (ft):	40.0000
Tank Diameter (ft):	100.0000
Working Loss Product Factor:	1.0000
folal Losses (lb):	147.0831
• •	

### **Emissions Report for: Annual**

2005 Tank 38 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)									
Components	Working Loss	Breathing Loss								
Asphalt Cement	104.04	43.05	[ 141,00							

Identification

User Identification: City:

Blackfoot State: ldaho Idaho Asphalt

Company: Type of Tank: Description: Vertical Fixed Roof Tank Asphalt Cement Storage

**Tank Dimensions** 

Shell Height (ft): Diameter (ft): 40.00 30.00 Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers: 40.00 36.00 211,507.41 10.77 Net Throughput(gal/yr): 2,276,938.00

Y

2005 Tank 4

Is Tank Heated (y/n):

**Paint Characteristics** 

Shell Color/Shade: Aluminum/Diffuse

Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

**Roof Characteristics** 

Type: Cone

Height (ft) 0,94 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

# 2005 Tank 4 - Vertical Fixed Roof Tank Blackfoot, Idaho

de d'America (1966-1966), l'apriliant des arrètaines au des plus que familier actue de la commente automate de	**************************************	······································						**************		o to distant to the section of a commen		to the reconstruction whereast is
			ily Liquid S perature (de		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Welght.	Fract.	Fract.	Weight
proprietable and a separate of the second of	products de antendrépayone paragrapayon			~~~~	to the first word is worse in a second in a second in				disease mes messer weekens among sessions		n'etgelorescor concessoro scor	or or a real and the same of t
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0635	0.0564	0.0713	105.0000			1,000.00

## 2005 Tank 4 - Vertical Fixed Roof Tank Blackfoot, Idaho

	e description and the single services are substituted by the section of the secti
Annual Emission Calcaulations	na someonees on se not use a susperimental se s
Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.3266
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9857
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,048.3266
Tank Dlameter (ft):	30.0000
Vapor Space Outage (ft):	4.3125
Tank Shell Helght (ft): Average Liquid Helght (ft):	40.0000 36.0000
Roof Outage (fl);	0.3125
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.3125
Roof Height (ft):	0.9375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	15.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	0.000
Surface Temperature (psia): Dally Avg. Liquid Surface Temp. (deg. R):	0.0635 834.6700
Daily Average Ambient Temp. (deg. F):	48.3542
Ideal Gas Constant R	40.3042
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Dally Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Dally Vapor Pressure Range (psia): Breather Vent Press. Setting Range(psia):	0.0149 0.0000
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid	0.0005
Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0713
Dally Avg. Liquid Surface Temp. (deg R):	834.6700
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Dally Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	4.3125
Working Losses (lb):	361.4078
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Annual Net Throughput (gal/yr.):	2,276,938,0000
Annual Tumovers: Turnover Factor:	10,7653 1,0000
Maximum Liquid Volume (gal):	211,507.4057
Maximum Equid Height (ff):	40.0000
Tank Diameter (ft):	30.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	372.1625

**Emissions Report for: Annual** 

2005 Tank 4 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)									
Components	Working Loss	Breathing Loss	Total Emissions							
Asphalt Cement	361,41	10.75	372.16							

Identification

User Identification:

2005 Tank 4 - Combined

City: State: Blackfoot Idaho

Company: Type of Tank: Description:

Idaho Asphalt Vertical Fixed Roof Tank Asphalt Cement Storage

**Tank Dimensions** 

Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Height (ft): 40.00 30.00 40.00

Volume (gallons):

36.00 211,507.41

Turnovers: Net Throughput(gal/yr): 161.48

Is Tank Heated (y/n):

34,154,070.00

**Paint Characteristics** 

Shell Color/Shade:

Aluminum/Diffuse

**Shell Condition** 

Good

Roof Color/Shade: Roof Condition:

Aluminum/Diffuse

Good

**Roof Characteristics** 

Type:

Cone

0.94

Slope (ft/ft) (Cone Roof)

0.06

**Breather Vent Settings** 

Vacuum Settings (psig):

0.00

Pressure Settings (psig)

0.00

## 2005 Tank 4 - Combined - Vertical Fixed Roof Tank Blackfoot, Idaho

the second secon	***************	**** ***************	****************		······································	and the same and the same of t	*	***************	and and production on the same North and the same	Notes and the state of the stat	***************************************	
			aily Liquid S peratura (d		Liquid Bulk Temp	Vapo	w Pressure	(osia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
	Abrembuses, menerous		W. 184 - C. 25. 10. 2001 A. 2504		lahannan listan sarara		Composition and the contract of the contract o	************		v na men AN a coom accomus resocas		
Asphalt Cement	All	375.00	370.00	380.00	375.00	0.0635	0.0564	0.0713	105.0000			1,000.00

## 2005 Tank 4 - Combined - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.326
Vapor Density (lb/cu ft):	0.000
Vapor Space Expansion Factor:	0.013
Vented Vapor Saturation Factor:	0.985
Fank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,048.3266
Tank Diameter (ft):	30.0000 4.312
Vapor Space Outage (ft): Tank Shell Height (ft):	40.0000
Average Liquid Height (ft):	38.0000
Roof Outage (fl):	0.312
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.3126
Roof Height (ft):	0.937
Roof Stope (fl/ft):	0.0629
Shell Radius (ft):	15.0000
/apor Densily	0.000
Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole):	0.0007 105.0000
Vapor Pressure at Daily Average Liquid	100,000
Surface Temperature (psia):	0.063
Daily Avg. Liquid Surface Temp. (deg. R):	834.670
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psia cuft / (lb-mol-deg R)):	10.73
Liquid Bulk Temperature (deg. R):	834.670
Tank Paint Solar Absorptance (Sheil):	0.6000
Tank Paint Solar Absorptance (Roof):	0.800
Daily Total Solar Insulation Factor (Blu/sqft day):	1,371.003
apor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0132
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0149
Breather Vent Press, Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.063
Vapor Pressure at Daily Minimum Liquid	0.050
Surface Temperature (psia):	0.056
Vapor Pressure at Dally Maximum Liquid Surface Temperature (psla):	0.071
Daily Avg. Liquid Surface Temp. (deg R);	834,670
Daily Min. Liquid Surface Temp. (deg R):	829.6700
Daily Max. Liquid Surface Temp. (deg R):	839,6700
Daily Ambient Temp. Range (deg. R):	25.8250
ented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid:	A 8401
Surface Temperature (psia): Vapor Space Outage (ft):	0.0638 4.3128
vapor Space Odiage (it).	4.312
/orking Losses (ib):	1,910.6670
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0636 34,154,070.0000
Annual Net Throughput (gal/yr.): Annual Turnovers:	34,154,070,0000
Turnover Factor;	0.3524
Maximum Liquid Volume (gal):	211,507.4057
Maximum Liquid Height (R):	40.0000
Tank Diameter (ft):	30.0000
Working Loss Product Factor:	1.0000
otal Losses (lb):	1,921.4217

**Emissions Report for: Annual** 

2005 Tank 4 - Combined - Vertical Fixed Roof Tank Blackfoot, Idaho

and the same of th		Losses(lbs)	
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Cement	1,910.67	10.75	

Identification

State:

User Identification: City:

2005 Tank 44 Blackfoot Idaho Idaho Asphalt

Company: Type of Tank: Description:

Vertical Fixed Roof Tank Asphalt Emulsion (Water-Based) Storage

Tank Dimensions Shell Helght (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers: Net Throughput(gal/yr):

Is Tank Heated (y/n):

2,631,374.00

36.00

14.00

36.00 32.40 41,455.45

57.96

**Paint Characteristics** 

Shell Color/Shade: Aluminum/Diffuse Good

Shell Condition

Aluminum/Diffuse

Roof Color/Shade: Roof Condition:

Good

Υ

**Roof Characteristics** 

Type: Cone

Height (ft) Slope (ft/ft) (Cone Roof)

0.44 0.06

Breather Vent Settings Vacuum Settings (psig):

0.00

Pressure Settings (psig)

0.00

## 2005 Tank 44 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			ily Liquid S perature (d		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Moł.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
destread one ones note in an exempty holy yethor but but the source contract and executive of any financial	A John of a global man factor and assessment.						andre / Arthur Arvenne va.			e transcription of the second of the	······································	a comment as at our state region &
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

## 2005 Tank 44 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (Ib):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	F70 0000
Vapor Space Volume (cu ft):	576.6262 14,0000
Tank Diameter (ft): Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	38.0000
Average Liquid Height (ft):	32,4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (fl):	0.4375
Roof Slope (fl/ft):	0.0625
Shell Radius (ft):	7.0000
/apor Density	0.0000
Vapor Density (lb/cu ft): Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	105.000
Surface Temperature (psia):	0.0003
Daily Avg. Liquid Surface Temp. (dag. R):	654,6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	
(psla cuft / (ib-mol-deg R)):	10.731
Liquid Bulk Temperature (dag. R):	654.6700
Tank Paint Solar Absorptance (Shell): Tank Paint Solar Absorptance (Roof):	0.6000 0.6000
Daily Total Solar Insulation	0.0000
Factor (Blu/sqft day):	1,371,0030
/apor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Renge (psia):	0.0001
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	0.0000
Surface Temperature (psia):	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psla):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R): Daily Amblent Temp. Range (deg. R):	659.6700 25.8250
	20.0200
/ented Vapor Saluration Factor  Vented Vapor Saluration Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	0.5855
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Working Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Tumovers: Turnover Factor:	57.9580 0.6843
nmover ractor: Maximum Liquid Volume (gal):	0.6843 41,455.4515
Maximum Liquid Volanie (gar): Maximum Liquid Height (ft):	38.0000
Tank Diameter (R):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	1.3402

**Emissions Report for: Annual** 

2005 Tank 44 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss								
Asphalt Cement	1.33		1.34						

Identification

User Identification: City: State:

2005 Tank 45 Blackfoot ldaho Idaho Asphalt

Company: Type of Tank:

Vertical Fixed Roof Tank

Description: Asphalt Emulsion (Water-Based) Storage

**Tank Dimensions** 

Shell Height (ft): Diameter (ft): Liquid Height (ft): Avg. Liquid Helght (ft): Volume (gallons): Turnovers: Net Throughput(gal/yr):

36.00 14.00 36.00 32.40 41,455.45 57.96 2,631,374.00

Υ

**Paint Characteristics** 

Aluminum/Diffuse Shell Color/Shade: Good

Shell Condition Roof Color/Shade:

Is Tank Heated (y/n):

Aluminum/Diffuse

Roof Condition: Good

**Roof Characteristics** 

Type:

Cone

Height (ft) Slope (ft/ft) (Cone Roof) 0,44 0.06

Breather Vent Settings Vacuum Settings (psig):

0.00 0.00

Pressure Settings (psig)

# 2005 Tank 45 - Vertical Fixed Roof Tank Blackfoot, Idaho

ent i control de control de de de provincia de control de la provincia de la decembra de la decembra de control de contro			managan junit, junig maja junig		of configural profession is profession	. An executive constraints	***************	nd Million A. Francisco		2 to 2		Andread and a contract of the property of the contract of the
			ily Liquid S perature (d		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Mex.	Weight.	Fract.	Fract.	Weight
arrows in a constant of the co	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		*************	. m. n e e e e e e e e e e e e e e e e e								~~
Asphalt Cement	Alf	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

## 2005 Tank 45 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturalion Factor:	0.9999
ank Vapor Space Volume:	570 0000
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft): Vapor Space Outage (ft):	14.0000 3.7458
Tank Shell Height (ft):	38.0000
Average Liquid Height (ft):	32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	7,0000
/apor Density	0.0000
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole): Vapor Pressure at Daliy Average Liquid	105.0000
Surface Temperature (psia);	0.0003
Daily Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Ambient Temp. (deg. F):	46,3542
Ideal Gas Constant R	
(psla cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation Factor (Btu/sqft day):	1,371.0030
/apor Space Expansion Factor Vepor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0002
Vepor Pressure at Daily Maximum Liquid	0.0001
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R): Daily Min. Liquid Surface Temp. (deg R):	654.6700 649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
fented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Vorking Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia);	0.0003
Annual Net Throughput (gal/yr.): Annual Turnovers:	2,631,374.0000 57.9580
Turnover Factor:	57.9560 0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Elquid Volume (gar). Maximum Elquid Height (ft);	36,0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
otal Losses (lb):	1.3402

**Emissions Report for: Annual** 

2005 Tank 45 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)									
Components	Working Loss	Working Loss Breathing Loss Total Emissions								
Asphalt Cement	1.33		1.34							

Identification

User Identification: City: State: Company:

2005 Tank 46 Blackfoot ldaho Idaho Asphalt

Type of Tank: Description:

Vertical Fixed Roof Tank Asphalt Emulsion (Water-Based) Storage

**Tank Dimensions** 

Shell Height (ft): 36.00 Diameter (ft): 14.00 Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers: 36.00 32.40 41,455.45 57.96 Net Throughput(gal/yr): 2,631,374.00 Υ

Is Tank Heated (y/n):

**Paint Characteristics** 

Aluminum/Diffuse Shell Color/Shade:

Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

**Roof Characteristics** 

Type: Cone

Height (ft) 0.44 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) 0.00 0.00

# 2005 Tank 46 - Vertical Fixed Roof Tank Blackfoot, Idaho

and the state of t		han alah ari birgi bang bi menggap paggap.				De l'Accesso d'accesso e conce en	on ottomorphism propried and consequent	*************		**************************************		er-wardense wenne.
			ily Liquid Si perature (di		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
are a read to the policy of the entire and the transfer of the entire and the ent	the to the state of the state o	***********		Y***********	enderson management of	emment to Comen as we as	etropia aneronapanamenta.	****		Marylanda Sanona Jadaneen Landon		THE COURT OF STREET PROPERTY AND ADDRESS.
Asphalt Cement	Αll	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1.000.00

### 2005 Tank 46 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb);	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0,0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Fank Vapor Space Volume:	F70 0000
Vapor Space Volume (cu ft);	576.6262 14.0000
Tank Diameter (ft): Vapor Space Outage (ft):	3,7458
Tank Shell Height (fl):	36.0000
Average Liquid Height (fl):	32,4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof)	
Roof Oulage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Stope (ft/ft):	0.0625
Shell Radius (fl):	7.0000
/apor Density	4.000
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Dally Avg. Liquid Surface Temp. (deg. R):	654.6700
Daily Average Amblent Temp. (deg. F);	46.3542
Ideal Gas Constant R	
(psia cuft / (ib-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof); Dally Total Solar Insulation	0.6000
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0153
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia);	0.0001
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vepor Pressure at Daily Minimum Liquid	0.0000
Surface Temperature (psia): Vapor Pressure at Daily Maximum Liquid	0.0002
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Dally Ambient Temp. Range (deg. R):	25.8250
/ented Vapor Saluration Factor	
Vented Vapor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.0003 3.7458
Vapor Space Outage (ft):	3.7430
Vorking Losses (fb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0003
Annual Net Throughput (gallyr.):	2,631,374.0000
Annual Turnovers:	2,031,374.0000 57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
ľotal Losses (ib):	1,3402

**Emissions Report for: Annual** 

2005 Tank 46 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	2.00.71119 2000	Total Emissions						
Asphalt Cement	1.33	0.01							

Identification

User Identification: City: State:

2005 Tank 47 Blackfoot ldaho Idaho Asphalt Vertical Fixed Roof Tank

Company: Type of Tank: Description:

Asphalt Emulsion (Water-Based) Storage

**Tank Dimensions** 

Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers:

36.00 14.00 36.00 32.40 41,455.45 57,96 2,631,374.00

Net Throughput(gal/yr):

is Tank Heated (y/n):

**Paint Characteristics** Shell Color/Shade: Aluminum/Diffuse

Shell Condition

Good Roof Color/Shade: Aluminum/Diffuse

Roof Condition:

Good

**Roof Characteristics** 

Type:

Cone

Height (ft) Slope (ft/ft) (Cone Roof)

0.44 0.06

Breather Vent Settings Vacuum Settings (psig):

0.00

Pressure Settings (psig)

## 2005 Tank 47 - Vertical Fixed Roof Tank Blackfoot, Idaho

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			ily Liquid S perature (d		Liquid Bulk Temp	Vapo	r Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Ανg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
cancer a consistency and the consistency in the properties on the phone are a consistency as account of the consistency and the consistency and the consistency are a consistency as a consistency as a consistency and the consistency are a consistency as a consistency and the consistency are a consistency as a consistency are a consistency and a consistency are a consistency as a consistency are a consistency are a consistency as a consistency are a consistency a						***********					or comments on their the standard to	on algorithms are accounted to
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

## 2005 Tank 47 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft): Vapor Space Expansion Factor:	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft): Average Liquid Height (ft):	36.0000 32.4000
Roof Outage (ft):	0.1458
Roof Outage (Cone Roof) Roof Outage (ft):	0.4450
Roof Height (ft):	0.1458
Roof Slope (fl/ft):	0.4375 0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg. R):	0.0003
Daily Average Ambient Temp. (deg. F):	654.6700 46.3542
Ideal Gas Constant R	40,3042
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. 유);	654.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof);	0.6000
Daily Total Solar Insulation Factor (Btu/sqft day):	1,371.0030
Japas Pagas Evacacion Foster	
/apor Space Expansion Factor Vapor Space Expansion Factor:	0.0153
Daily Vepor Temperature Renge (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.0001
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Vepor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0000
Vapor Pressure at Daily Maximum Liquid	0.0002
Surface Temperature (psia):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Daily Min. Liquid Surface Temp. (deg R):	649.6700
Daily Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vepor Saturation Factor:	0.9999
Vapor Pressure at Daily Average Liquid: Surface Temperature (psla):	0.0003
Vapor Space Outage (ft):	3.7458
Vorking Losses (lb):	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	10010000
Surface Temperature (psia):	0.0003
Annual Net Throughput (gallyr.):	2,631,374.0000
Annual Turnovers;	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal); Maximum Liquid Height (ft);	41,455.4515
Tank Diameter (ft):	36.0000 14.0000
Working Loss Product Factor:	1.0000
otal Losses (lb);	1.3402

**Emissions Report for: Annual** 

2005 Tank 47 - Vertical Fixed Roof Tank Blackfoot, Idaho

		Losses(lbs)	
Components	Working Loss		Total Emissions
Asphalt Cement	1.33	0.01	1,34

Identification

User Identification: City: State:

ldaho Company: Idaho Asphalt Type of Tank: Vertical Fixed Roof Tank

Description:

Asphalt Emulsion (Water-Based) Storage

2005 Tank 48

Blackfoot

Tank Dimensions Shell Height (ft): 36.00 Dlameter (ft): 14.00 Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): 36.00 32.40 41,455.45 Turnovers: 57.96 Net Throughput(gal/yr): Is Tank Heated (y/n): 2,631,374.00

**Paint Characteristics** 

Shell Color/Shade: Aluminum/Diffuse Shell Condition Good

Roof Color/Shade: Aluminum/Diffuse

Roof Condition: Good

**Roof Characteristics** 

Type: Cone

Height (ft) 0.44 Slope (ft/ft) (Cone Roof) 0.06

Breather Vent Settings Vacuum Settings (psig): 0.00 Pressure Settings (psig) 0.00

# 2005 Tank 48 - Vertical Fixed Roof Tank Blackfoot, Idaho

and described and 1200 to a reasonable reasonable restriction for a long body and accommission to	****************	other, pet 100, 2 of 2 on the transcense.		e necessary construction, you,			A . A		١٨٠٨٧٨ ٠٠٠٠٨ ٧٨		and the state of t	
			ily Liquid Si perature (de		Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max,	Weight.	Fract.	Fract.	Weight
and the big spirit and the sign of the spirit of the spiri	*********				- Colored Materials process, const			**.***	-			arteter a serie con contrare
Asphalt Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105.0000			1,000.00

## 2005 Tank 48 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	nd Markinsk sydner og ernopske pp. 1941, e på e norme et a årenove nære og
Standing Losses (lb);	0.0142
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0153
Vented Vapor Saturation Factor:	0.9999
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft); Average Liquid Height (ft):	36.0000
Roof Outage (ft):	32.4000 0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft);	0.0625
Shell Radius (ft):	7.0000
Vapor Density	
Vapor Densily (lb/cu ft):	0.0000
Vepor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Dalty Average Liquid	0.0000
Surface Temperature (psia): Daily Avg. Liquid Surface Temp. (deg. R):	0.0003
Daily Average Ambient Temp. (deg. F):	654.6700 46.3542
Ideal Gas Constant R	40.5542
(psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	654.6700
Tank Paint Solar Absorptence (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqft day):	1,371.0030
Vapor Space Expansion Factor	0.0450
Vapor Space Expansion Factor; Dally Vapor Temperature Range (deg. R);	0.0153
Daily Vapor Pressure Range (psia):	10.0000 0.0001
Breather Vent Press. Setting Range(psia):	0.0001
Vapor Pressure at Daily Average Liquid	0.0000
Surface Temperature (psia):	0.0003
Vapor Pressure at Dally Minimum Liquid	0.0000
Surface Temperature (psia);	0.0002
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (osla):	0.0004
Daily Avg. Liquid Surface Temp. (deg R):	654.6700
Dally Avg. Liquid Surface Temp. (deg R): Dally Min. Liquid Surface Temp. (deg R): Dally Mex. Liquid Surface Temp. (deg R):	649.6700
Dally Max. Liquid Surface Temp. (deg R):	659.6700
Daily Ambient Temp. Range (dag. R):	25.8250
Vented Vapor Saturation Factor Vented Vapor Saturation Factor:	0.0000
Vapor Pressure at Daily Average Liquid:	0.9999
Surface Temperature (psia):	0.0003
Vapor Space Outage (ft):	3.7458
Vorking Losses (ib);	1.3260
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0003
Annual Net Throughput (gal/yr.):	2,631,374.0000
Annual Turnovers:	57.9580
Turnover Factor:	0.6843
Maximum Liquid Volume (gal);	41,455,4515
Meximum Liquid Height (ft):	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Loscoe (th):	4 0 400
Fotal Losses (ib);	1.3402

### **Emissions Report for: Annual**

2005 Tank 48 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss	Breathing Loss							
Asphalt Cement	1.33	0.01	1,041						

Identification

User Identification: Clty: State:

Company:

Type of Tank: Description:

2005 Tank 49 Blackfoot ldaho

ldaho Asphalt Vertical Fixed Roof Tank

Asphalt Emulsion (Fuel-Based) Storage

**Tank Dimensions** 

Shell Height (ft):
Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers: Net Throughput(gal/yr):

32.40 41,455.45 30,37 1,259,177.00

36,00 14,00 36.00

is Tank Heated (y/n):

Paint Characteristics Shell Color/Shade:

Shell Condition

Roof Color/Shade: Roof Condition:

Aluminum/Diffuse

Good

Aluminum/Diffuse

Good

**Roof Characteristics** 

Type: Helght (ft) Slope (ft/ft) (Cone Roof)

Cone

0.44 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig)

0.00

## 2005 Tank 49 - Vertical Fixed Roof Tank Blackfoot, Idaho

and the state of t					January Marie and American		lande standards and		ومحرور سنو فرستستان ساف فسادات	*************	and a contract of the property of the property of the	******
	Dally Liquid Surf. Temperature (deg F)			Liquid Bulk Temp	Vapo	or Pressure	(psia)	Vapor Mol.	Liquid Mass	Vapor Mass	Mol.	
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Welght.	Fract.	Fract.	Weight
Asphalt Emulsion	All	150.00	145.00	155.00	150.00	0.5000	0.3000	0.7000	87.1252		n, p n, m., 1970 p. p. n., y p. n. n. y p. n. n.	931.46
Asphalt Cement						0.0000	0.0000	0.0001	105.0000	0.9000	0.0001	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0001	0.0196	78.11
Cyclohexene						8.4364	7.6743	9.2574	82.1500	0.0012	0.2165	82.15
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0005	0.0152	106,17
Нехале (-л)						13,2858	12.1429	14.5115	86.1700	0.0015	0.4261	86.17
Isopropyl benzene						0.8036	0.7083	0.9096	120.2000	0.0002	0.0034	120.20
Toluene						3.3295	2.9919	3.6975	92.1300	0.0020	0.1424	92.13
Unidentified Components						0.6942	-1.1010	0.1634	84.8476	0.0920	0.1117	1.037.66
Xylene (-m)						1.2173	1.0797	1.3691	106.1700	0.0025	0.0651	106.17

## 2005 Tank 49 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	
Standing Losses (lb):	63.3072
Vapor Space Volume (cu ft):	576.6262
Vapor Density (lb/cu ft):	0.0067
Vapor Space Expansion Factor:	0.0497
Vented Vapor Saturation Factor:	0.9097
Tank Vapor Space Volume:	the cone
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft): Vapor Space Outage (ft):	14.0000 3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft):	32,4000
Roof Oulage (fl):	0.1458
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4375
Roof Slope (ft/ft): Shell Radius (ft):	0.0625 7.0000
	7.0000
∕apor Density Vapor Density (lb/cu ft):	0.0067
Vapor Molecular Weight (lb/lb-mole):	87.1252
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psla):	0.5000
Daily Avg. Liquid Surface Temp. (deg. R);	609.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R (psia cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	609.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof);	0.6000
Daily Total Solar Insulation	4 974 0090
Factor (Blu/sqft day):	1,371.0030
/apor Space Expansion Factor Vapor Space Expansion Factor:	0.0497
Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia):	0.4000
Breather Vent Press, Setting Range(psia):	0.0000
Vapor Pressure at Dally Average Liquid	
Surface Temperature (psia):	0.5000
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.3000
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia);	0.7000
Dally Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	804.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Dally Ambient Temp, Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9097
Vapor Pressure at Daily Average Liquid:	
Surface Temperature (psia):	0.5000
Vapor Space Outage (ft):	3.7458
Vorking Losses (lb):	1,306.0238
Vapor Molecular Weight (lb/lb-mole):	87.1252
Vapor Pressure at Daily Average Liquid	0.5000
Surface Temperature (psia): Annual Net Throughput (gal/yr.):	0.5000 1,259,177.0000
Annual Turnovers:	30.3742
Turnover Factor;	1.0000
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft);	36.0000
Tank Diameter (ft):	14.0000
Working Loss Product Factor:	1.0000
	4 000 000
「otal Losses (lb):	1,369.3310

**Emissions Report for: Annual** 

2005 Tank 49 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)									
Components	Working Loss	Breathing Loss	Total Emissions							
Asphalt Emulsion	1,306.02	63.31	1,369.33							
Asphalt Cement	0.12	0.01	0.13							
Benzene	25.59	1.24	26.83							
Hexane (-n)	556.52	26.98	583.50							
Toluene	185.96	9.01	194.97							
Ethylbenzene	19.82	0.96	20.79							
Xylene (-m)	84.98	4.12	89.10							
Isopropyl benzene	4.49	0.22	4.71							
Cyclohexene	282.71	13.70	296.41							
Unidentified Components	145.83	7.07	152.90							

Identification

User Identification: City: State: Company:

Idaho Idaho Asphalt Vertical Fixed Roof Tank

2005 Tank 5

Blackfoot

Type of Tank: Description:

Asphalt Cement Storage

Tank Dimensions Shell Height (ft): Diameter (ft): Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): Turnovers:

40.00 30.00 40.00 36.00 211,507.41 10.77 2,276,938.00

Net Throughput(gal/yr): Is Tank Heated (y/n):

Υ

**Paint Characteristics** 

Shell Color/Shade: Shell Condition

Aluminum/Diffuse

Good

Roof Color/Shade:

Aluminum/Diffuse

Roof Condition: Good

**Roof Characteristics** 

Type:

Cone

Height (ft) Slope (ft/ft) (Cone Roof) 0.94 0.06

Breather Vent Settings Vacuum Settings (psig):

0.00

Pressure Settings (psig)

0.00

## 2005 Tank 5 - Vertical Fixed Roof Tank Blackfoot, Idaho

Mixture/Component	Month	Da	ily Liquid Si perature (de Min.	urf.	Liquid Bulk Temp (deg F)		r Pressure Min.		Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Welght	
Asphalt Cement	All	375.00	370.00	380.00		<del>-</del>	0.0564	0.0713	105.0000			• • •	

## 2005 Tank 5 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Emission Calcaulations	a abanda wasan masa manaka manggi pana bara bara
Standing Losses (lb):	10.7547
Vapor Space Volume (cu ft):	3,048.3266
Vapor Density (lb/cu ft):	0.0007
Vapor Space Expansion Factor:	0.0132
Vented Vapor Saturation Factor:	0.9857
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	3,048.3266
Tank Diameter (ft):	30.0000
Vapor Space Outage (ft):	4.3125
Tank Shell Height (fl):	40.0000
Average Liquid Height (ft): Roof Outage (ft):	36.0000 0.3125
Roof Outage (Cone Roof) Roof Outage (ft):	0.3125
Roof Height (ft):	0.9375
Roof Stope (ft/ft):	0.0625
Shell Radius (ft):	15.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0007
Vapor Molecular Weight (lb/lib-mote):	105.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0635
Daily Avg. Liquid Surface Temp. (deg. R):	834.6700
Daily Average Ambient Temp. (deg. F):	46.3542
Ideal Gas Constant R	40.0072
(psla cuft / (lb-mol-deg R));	10.731
Liquid Bulk Temperature (deg. R):	834.6700
Tank Paint Solar Absorptance (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	4 074 0000
Factor (Btu/sqft day):	1,371.0030
Vapor Space Expansion Factor	0.0132
Vapor Space Expansion Factor: Daily Vapor Temperature Range (deg. R):	10.0000
Daily Vapor Pressure Range (psia);	0.0149
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Vapor Pressure at Daily Minimum Liquid	
Surface Temperature (psia):	0.0564
Vapor Pressure at Daily Maximum Liquid	
Surface Temperature (psia):	0.0713
Delly Avg. Liquid Surface Temp. (deg R); Delly Min. Liquid Surface Temp. (deg R);	834.6700 829.6700
Daily Max. Liquid Surface Temp. (deg R):	839.6700
Daily Amblent Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9857
Vapor Pressure at Daily Average Liquid:	0,000
Surface Temperature (psia):	0.0635
Vapor Space Outage (ft):	4.3125
Working Losses (lb);	361.4078
Vapor Molecular Weight (lb/lb-mole):	105.0000
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia):	0.0635
Annual Net Throughput (gal/yr.):	2,276,938,0000
Annual Turnovers:	10.7653
Turnover Factor; Maximum Liquid Volume (gal);	1.0000
Maximum Liquid Vojume (gal); Maximum Liquid Height (ft);	211,507.4057 40.0000
Maxanum Liquid Height (it); Tank Diameter (ft);	30.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	372.1625

**Emissions Report for: Annual** 

2005 Tank 5 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)								
Components	Working Loss		Total Emissions						
Asphalt Cement	361.41	10,75	372.16						

Identification

User Identification: Clty: State:

ldaho Company: Type of Tank: Description:

Idaho Asphalt Vertical Fixed Roof Tank Asphalt Emulsion (Fuel-Based) Storage

2005 Tank 50 Blackfoot

**Tank Dimensions** 

Shell Height (ft):
Dlameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons):
Turnovers: 36.00 14.00 36,00 32,40 41,455.45 30.37 Net Throughput(gal/yr): Is Tank Heated (y/n): 1,259,177.00 Υ

Paint Characteristics Shell Color/Shade: Aluminum/Diffuse **Shell Condition** Good

Roof Color/Shade: Aluminum/Diffuse Roof Condition:

Good

**Roof Characteristics** 

Type: Cone

Height (ft) Slope (ft/ft) (Cone Roof) 0.44 0.06

Breather Vent Settings Vacuum Settings (pslg): Pressure Settings (pslg) 0.00 0.00

### 2005 Tank 50 - Vertical Fixed Roof Tank Blackfoot, Idaho

Contraction to the Contract of	The firm and commercial according to your	and the second second	*** **** **********	in terminal transfer medianes		and the original of a body and the state of					COMPANIAN AND AND	
				Llquid sily Liquid Surf. Bulk perature (deg F) Temp		Vapor Pressure (psia)			Vapor Mol.	Liquid Mass	Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
Asphalt Emulsion	All	150.00	145.00	155.00	150.00	0.9140	0.8000	1,1000	87.1252		**************************************	931.46
Asphalt Cement						0.0000	0.0000	0.0001	105,0000	0.9000	0.0001	1,000.00
Benzene						9.1646	8.3308	10.0635	78.1100	0.0001	0.0107	78.11
Cyclohexene						8.4364	7.6743	9.2574	82.1500	0.0012	0.1184	82.15
Ethylbenzene						1.4198	1.2613	1.5946	106.1700	0.0005	0.0083	106.17
Hexane (-n)						13.2858	12.1429	14.5115	86.1700	0.0015	0.2331	86.17
Isopropyl benzene						0.8036	0.7083	0.9098	120.2000	0.0002	0.0019	120.20
Toluene						3.3295	2.9919	3.6975	92.1300	0.0020	0.0779	92.13
Unidentified Components						5.7073	3.9121	5.1765	86.8481	0.0920	0.5140	1.037.66
Xyleлe (-m)						1.2173	1.0797	1.3691	106.1700	0.0025	0.0358	106.17

### 2005 Tank 50 - Vertical Fixed Roof Tank Blackfoot, Idaho

Annual Eminator Colonialism	a (A. Pary A)A, a representativa pro transfer and care decade
Annual Emission Calcaulations	ale destructive and the first transport of the second section of the second section of
Standing Losses (fb):	91.5754
Vapor Space Volume (cu ft);	576.6262
Vapor Density (lb/cu ft):	0.0122
Vapor Space Expansion Factor:	0.0422
Vented Vapor Saturation Factor:	0.8464
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	576.6262
Tank Diameter (ft):	14.0000
Vapor Space Outage (ft):	3.7458
Tank Shell Height (ft):	36.0000
Average Liquid Height (ft): Roof Outage (ft):	32.4000 0.1458
	0.1400
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.1458
Roof Height (ft):	0.4376
Roof Slope (ft/ft): Shell Radius (ft):	0.0625 7.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0122
Vapor Molecular Welght (lb/lb-mole):	87.1252
Vapor Pressure at Daily Average Liquid	
Surface Temperature (psia);	0,9140
Daily Avg. Liquid Surface Temp. (deg. R):	609.6700
Daily Average Ambient Temp. (deg. F): Ideal Gas Constant R	46.3542
(psia cuft / (lb-mol-deg R));	10.731
Uquid Bulk Temperature (deg. R):	609,6700
Tank Paint Solar Absorptence (Shell):	0.6000
Tank Paint Solar Absorptance (Roof):	0.6000
Daily Total Solar Insulation	
Factor (Blu/sqfl day):	1,371.0030
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0422
Daily Vapor Temperature Range (deg. R):	10.0000
Dally Vapor Pressure Range (psia):	0.3000
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Élquid Surface Temperature (psia):	0.0140
Vapor Pressure at Daily Minimum Liquid	0.9140
Surface Temperature (psia):	0.8000
Vapor Pressure at Daily Maximum Liquid	0.0000
Surface Temperature (psia):	1.1000
Daily Avg. Liquid Surface Temp. (deg R):	609.6700
Daily Min. Liquid Surface Temp. (deg R):	604.6700
Daily Max. Liquid Surface Temp. (deg R):	614.6700
Daily Ambient Temp. Range (deg. R):	25.8250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.8464
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0440
Vapor Space Outage (ft):	0.9140 3.7458
Working Losses (lb):	2,387.4114
Vapor Molecular Weight (lb/lb-mote);	87.1252
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.9140
Annual Net Throughput (gal/yr.):	1,259,177,0000
Annual Turnovers:	30.3742
Turnover Factor;	1.0000
Maximum Liquid Volume (gal):	41,455.4515
Maximum Liquid Height (ft):	36.0000
Tank Dlameter (ft):	14.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	2,478.9868

### **Emissions Report for: Annual**

2005 Tank 50 - Vertical Fixed Roof Tank Blackfoot, Idaho

	Losses(lbs)									
Components	Working Loss	Breathing Loss	Total Emissions							
Asphalt Emulsion	2,387.41	91.58	2,478.99							
Asphalt Cement	0.12	0.00	0.13							
Benzene	25.59	0.98	26.57							
Hexane (-n)	556.52	21.35	577.87							
Toluene	185.96	7.13	193.09							
Ethylbenzene	19.82	0.76	20.59							
Xylene (-m)	84.98	3.26	88.24							
Isopropyl benzene	4.49	0.17	4.66							
Cyclohexene	282.71	10.84	293.55							
Unidentifled Components	1,227.22	47.07	1,274.29							

Identification

User Identification: City: State: Company: Type of Tank:

Blackfoot Idaho Idaho Asphalt Vertical Fixed Roof Tank

2005 Tank 51

Asphalt Emulsion (Water-Based) Storage

**Tank Dimensions** 

Description:

Shell Height (ft): 36.00 Diameter (ft):
Liquid Height (ft):
Avg. Liquid Height (ft):
Volume (gallons): 14.00 36,00 32.40 41,455.45 Turnovers: 57.96 Net Throughput(gal/yr): 2,631,374.00

Is Tank Heated (y/n): Y

**Paint Characteristics** 

Shell Color/Shade: Aluminum/Diffuse **Shell Condition** Good Aluminum/Diffuse Roof Color/Shade:

Roof Condition: Good

**Roof Characteristics** 

Type: Height (ft) Slope (ft/ft) (Cone Roof) Cone

0.44 0.06

Breather Vent Settings Vacuum Settings (psig): Pressure Settings (psig) 0.00 0.00

## 2005 Tank 51 - Vertical Fixed Roof Tank Blackfoot, Idaho

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		Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp	Vapor Pressure (psia)			Vapor Mol.		Vapor Mass	Mol.
Mixture/Component	Month	Avg.	Min.	Max.	(deg F)	Avg.	Min.	Max.	Weight.	Fract.	Fract.	Weight
color and colors and coloring high-statement of the second coloring and an experience of the coloring and property of				····		er oos die kommenten van de		annegacija nekola pestinan	the Control of the co		**********************	/#.v. x
Asphall Cement	All	195.00	190.00	200.00	195.00	0.0003	0.0002	0.0004	105,0000			1,000.00